

# Колонки для ВЭЖХ



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## HPLC Columns Selection Guide

XChroma Columns	Parameter						
	Bonded Phase	USP No	Particle Size (µm)	Pore Size	Surface Area (m <sup>2</sup> /g)	Carbon loading	PH Range
C18-Aqueous	L1	3,5,10	120Å	320	12%	1.5-10	YES
C18-Universal	L1	1.8,3,5,10	120Å	320	17%	1.5-10	YES
			300Å	90	8%		
C18-Low PH	L1	3,5	120Å	160	10%	2.0-8.0	NO
C18-Alkaline	L1	3,5,10	120Å	320	17%	1.5-10	NO
C8-Universal	L7	1.8,3,5,10	120Å	320	12%	1.5-10	YES
			300Å	90			
C8-Low PH	L7	5	120Å	320	5.5%	1.0-8.0	NO
C8-Fluorine	L7	5	120Å	320	12%	1.5-10	YES
C1	L13	5	120Å	320	4%	1.5-10	YES
C4	L26	3,5	120Å	320	8%	1.5-10	YES
			300Å	90	3%		
SiO <sub>2</sub>	L3	5	120Å	320	N/A	1.5-10	NO
NH <sub>2</sub>	L8	5	120Å	320	N/A	1.5-10	NO
CN	L10	5	120Å	320	6%	1.5-10	NO
Phenyl	L11	3,5,10	120Å	320	12%	1.5-10	YES
			300Å	90	6%		
Phenyl-Ether	/	5	120Å	320	12%	1.5-10	YES
Polar RP	L1	1.8,3,5,10	120Å	320	18%	1.5-10	YES
			300Å	90			
SCX	/	5	120Å	320	/	2.0-8.0	NO
SAX	/	5	120Å	320	7.5%	2.0-8.0	NO
Diol	/	5	120Å	320	2.5%	1.5-10	NO
C30	L62	5	120Å	320	17%	1.5-10	YES
Amino Acid	/	3, 5	120Å	320	17%	1.5-10	YES
PAH	/	5	120Å	320	22%	1.5-10	YES
PFP	/	5	120Å	320	13%	1.5-10	YES
HILIC Amide	/	5	120Å	320	7%	2.0-8.0	NO



## 1. XChroma HPLC Columns

### Features

- Proprietary surface modification for smooth, uniform and inert silica surface.
- Long column lifetime and more injections.
- Unique bonding chemistry and end-capping technology.
- Exceptional lot-to-lot reproducibility.
- Excellent peak shape, especially for polar, acidic and basic compounds.
- Available in analytical and prep types, of all dimensions and sample sizes.
- Series of stationary reversed phase and normal phases for wide selectivity.
- Best value – high premium products with very competitive price.

### 1.1 C18-Aqueous Columns

#### Description

C18-Aqueous is a column which can endure 100% aqueous phase. With appropriate surface coverage and double end-capped technique, C18-Aqueous has good compatibility with high aqueous mobile phase and longer lifetime.

1. No phase collapse; suitable for high aqueous mobile phase
2. End capped for excellent peak shape of polar, acidic and basic compounds
- 3, less retentive than C18-Universal for non-polar compounds
4. Increase retention for polar and water soluble compounds
5. Excellent applications for water soluble compounds that typically can't be retained on traditional C18 phase
6. Wide pH range: 1.5-10
7. Can provide 300 Å pore size for the separation of macro-molecular compounds

### Order Information

Item No	Description	Package (pcs/pk)
SLHC18A32130	HPLC Column,C18-Aqueous,3µm,120Å,2.1x30mm	1
SLHC18A32133	HPLC Column,C18-Aqueous,3µm,120Å,2.1x33mm	1
SLHC18A32150	HPLC Column,C18-Aqueous,3µm,120Å,2.1x50mm	1
SLHC18A32175	HPLC Column,C18-Aqueous,3µm,120Å,2.1x75mm	1
SLHC18A321100	HPLC Column,C18-Aqueous,3µm,120Å,2.1x100mm	1
SLHC18A321125	HPLC Column,C18-Aqueous,3µm,120Å,2.1x125mm	1
SLHC18A321150	HPLC Column,C18-Aqueous,3µm,120Å,2.1x150mm	1
SLHC18A321200	HPLC Column,C18-Aqueous,3µm,120Å,2.1x200mm	1
SLHC18A321250	HPLC Column,C18-Aqueous,3µm,120Å,2.1x250mm	1
SLHC18A33030	HPLC Column,C18-Aqueous,3µm,120Å,3.0x30mm	1
SLHC18A33050	HPLC Column,C18-Aqueous,3µm,120Å,3.0x50mm	1
SLHC18A33075	HPLC Column,C18-Aqueous,3µm,120Å,3.0x75mm	1
SLHC18A330100	HPLC Column,C18-Aqueous,3µm,120Å,3.0x100mm	1
SLHC18A330125	HPLC Column,C18-Aqueous,3µm,120Å,3.0x125mm	1
SLHC18A330150	HPLC Column,C18-Aqueous,3µm,120Å,3.0x150mm	1
SLHC18A330200	HPLC Column,C18-Aqueous,3µm,120Å,3.0x200mm	1
SLHC18A330250	HPLC Column,C18-Aqueous,3µm,120Å,3.0x250mm	1
SLHC18A34030	HPLC Column,C18-Aqueous,3µm,120Å,4.0x30mm	1
SLHC18A34050	HPLC Column,C18-Aqueous,3µm,120Å,4.0x50mm	1
SLHC18A34075	HPLC Column,C18-Aqueous,3µm,120Å,4.0x75mm	1
SLHC18A340100	HPLC Column,C18-Aqueous,3µm,120Å,4.0x100mm	1
SLHC18A340125	HPLC Column,C18-Aqueous,3µm,120Å,4.0x125mm	1
SLHC18A339150	HPLC Column,C18-Aqueous,3µm,120Å,3.9x150mm	1
SLHC18A340150	HPLC Column,C18-Aqueous,3µm,120Å,4.0x150mm	1
SLHC18A340200	HPLC Column,C18-Aqueous,3µm,120Å,4.0x200mm	1
SLHC18A339250	HPLC Column,C18-Aqueous,3µm,120Å,3.9x250mm	1
SLHC18A340250	HPLC Column,C18-Aqueous,3µm,120Å,4.0x250mm	1
SLHC18A34630	HPLC Column,C18-Aqueous,3µm,120Å,4.6x30mm	1
SLHC18A34633	HPLC Column,C18-Aqueous,3µm,120Å,4.6x33mm	1
SLHC18A34650	HPLC Column,C18-Aqueous,3µm,120Å,4.6x50mm	1
SLHC18A34675	HPLC Column,C18-Aqueous,3µm,120Å,4.6x75mm	1
SLHC18A346100	HPLC Column,C18-Aqueous,3µm,120Å,4.6x100mm	1
SLHC18A346125	HPLC Column,C18-Aqueous,3µm,120Å,4.6x125mm	1
SLHC18A346150	HPLC Column,C18-Aqueous,3µm,120Å,4.6x150mm	1
SLHC18A346200	HPLC Column,C18-Aqueous,3µm,120Å,4.6x200mm	1

SLHC18A346250	HPLC Column,C18-Aqueous,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC18A52130	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHC18A52133	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHC18A52150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHC18A52175	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHC18A521100	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHC18A521125	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHC18A521150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHC18A521200	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHC18A521250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHC18A53030	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHC18A53050	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHC18A53075	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHC18A530100	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHC18A530125	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHC18A530150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHC18A530200	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHC18A530250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHC18A54030	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHC18A54050	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHC18A54075	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHC18A540100	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHC18A540125	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHC18A539150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHC18A540150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHC18A540200	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHC18A539250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHC18A540250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHC18A539300	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHC18A540300	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHC18A54630	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHC18A54633	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHC18A54650	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHC18A54675	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHC18A546100	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHC18A546125	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHC18A546150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHC18A546200	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1

SLHC18A546250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC18A546300	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1
SLHC18A560150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,6.0x150mm	1
SLHC18A560250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,6.0x250mm	1
SLHC18A565150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,6.5x150mm	1
SLHC18A565250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,6.5x250mm	1
SLHC18A578100	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,7.8x100mm	1
SLHC18A578150	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,7.8x150mm	1
SLHC18A578250	HPLC Column,C18-Aqueous,5 $\mu$ m,120 $\text{\AA}$ ,7.8x250mm	1
SLHC18A1039300	HPLC Column,C18-Aqueous,10 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHC18A1040300	HPLC Column,C18-Aqueous,10 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHC18A1046150	HPLC Column,C18-Aqueous,10 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHC18A1046200	HPLC Column,C18-Aqueous,10 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHC18A1046250	HPLC Column,C18-Aqueous,10 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC18A1046300	HPLC Column,C18-Aqueous,10 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1

## 1.2 C18-Universal Columns

### Description

C18-Universal is currently one of the most common used columns on the market. XChroma C18-Universal can substitute most of the current C18 columns on the market, such as shown in below chart.

Brand	GL Science	Waters	Agilent	Phenomenex	Sigma-Supelcosil	YMC
Series	Inertsil ODS-2	Symmetry C18	Zorbax XDB C18	Luna C18	LC-18-DB	ODS-AM Alltima C18

### Features:

1. Sharp peak shape, high column efficiency
2. High peak capacity, suitable for the analysis of the Chinese traditional medicine
3. Excellent batch reproducibility and stability,
4. Wide pH range: 1.5-10
5. Widely used in chemical drug, Chinese medicine, environment and food safety testing field
6. 120  $\text{\AA}$ , 300 $\text{\AA}$  pore sizes



### Order Information

Item No	Description	Package (pcs/pk)
SLHC18U32130	HPLC Column,C18-Universal,3µm,120Å,2.1x30mm	1
SLHC18U32133	HPLC Column,C18-Universal,3µm,120Å,2.1x33mm	1
SLHC18U32150	HPLC Column,C18-Universal,3µm,120Å,2.1x50mm	1
SLHC18U32175	HPLC Column,C18-Universal,3µm,120Å,2.1x75mm	1
SLHC18U321100	HPLC Column,C18-Universal,3µm,120Å,2.1x100mm	1
SLHC18U321125	HPLC Column,C18-Universal,3µm,120Å,2.1x125mm	1
SLHC18U321150	HPLC Column,C18-Universal,3µm,120Å,2.1x150mm	1
SLHC18U321200	HPLC Column,C18-Universal,3µm,120Å,2.1x200mm	1
SLHC18U321250	HPLC Column,C18-Universal,3µm,120Å,2.1x250mm	1
SLHC18U33030	HPLC Column,C18-Universal,3µm,120Å,3.0x30mm	1
SLHC18U33050	HPLC Column,C18-Universal,3µm,120Å,3.0x50mm	1
SLHC18U33075	HPLC Column,C18-Universal,3µm,120Å,3.0x75mm	1
SLHC18U330100	HPLC Column,C18-Universal,3µm,120Å,3.0x100mm	1
SLHC18U330125	HPLC Column,C18-Universal,3µm,120Å,3.0x125mm	1
SLHC18U330150	HPLC Column,C18-Universal,3µm,120Å,3.0x150mm	1
SLHC18U330200	HPLC Column,C18-Universal,3µm,120Å,3.0x200mm	1
SLHC18U330250	HPLC Column,C18-Universal,3µm,120Å,3.0x250mm	1
SLHC18U34030	HPLC Column,C18-Universal,3µm,120Å,4.0x30mm	1
SLHC18U34050	HPLC Column,C18-Universal,3µm,120Å,4.0x50mm	1
SLHC18U34075	HPLC Column,C18-Universal,3µm,120Å,4.0x75mm	1
SLHC18U340100	HPLC Column,C18-Universal,3µm,120Å,4.0x100mm	1
SLHC18U340125	HPLC Column,C18-Universal,3µm,120Å,4.0x125mm	1
SLHC18U339150	HPLC Column,C18-Universal,3µm,120Å,3.9x150mm	1
SLHC18U340150	HPLC Column,C18-Universal,3µm,120Å,4.0x150mm	1
SLHC18U340200	HPLC Column,C18-Universal,3µm,120Å,4.0x200mm	1
SLHC18U339250	HPLC Column,C18-Universal,3µm,120Å,3.9x250mm	1
SLHC18U340250	HPLC Column,C18-Universal,3µm,120Å,4.0x250mm	1
SLHC18U34630	HPLC Column,C18-Universal,3µm,120Å,4.6x30mm	1
SLHC18U34633	HPLC Column,C18-Universal,3µm,120Å,4.6x33mm	1
SLHC18U34650	HPLC Column,C18-Universal,3µm,120Å,4.6x50mm	1
SLHC18U34675	HPLC Column,C18-Universal,3µm,120Å,4.6x75mm	1
SLHC18U346100	HPLC Column,C18-Universal,3µm,120Å,4.6x100mm	1
SLHC18U346125	HPLC Column,C18-Universal,3µm,120Å,4.6x125mm	1
SLHC18U346150	HPLC Column,C18-Universal,3µm,120Å,4.6x150mm	1
SLHC18U346200	HPLC Column,C18-Universal,3µm,120Å,4.6x200mm	1



SLHC18U346250	HPLC Column,C18-Universal,3µm,120Å,4.6x250mm	1
SLHC18U32150-3	HPLC Column,C18-Universal,3µm,300Å,2.1x50mm	1
SLHC18U321100-3	HPLC Column,C18-Universal,3µm,300Å,2.1x100mm	1
SLHC18U321150-3	HPLC Column,C18-Universal,3µm,300Å,2.1x150mm	1
SLHC18U33050-3	HPLC Column,C18-Universal,3µm,300Å,3.0x50mm	1
SLHC18U330100-3	HPLC Column,C18-Universal,3µm,300Å,3.0x100mm	1
SLHC18U330150-3	HPLC Column,C18-Universal,3µm,300Å,3.0x150mm	1
SLHC18U34050-3	HPLC Column,C18-Universal,3µm,300Å,4.0x50mm	1
SLHC18U340100-3	HPLC Column,C18-Universal,3µm,300Å,4.0x100mm	1
SLHC18U339150-3	HPLC Column,C18-Universal,3µm,300Å,3.9x150mm	1
SLHC18U340150-3	HPLC Column,C18-Universal,3µm,300Å,4.0x150mm	1
SLHC18U34650-3	HPLC Column,C18-Universal,3µm,300Å,4.6x50mm	1
SLHC18U346100-3	HPLC Column,C18-Universal,3µm,300Å,4.6x100mm	1
SLHC18U346150-3	HPLC Column,C18-Universal,3µm,300Å,4.6x150mm	1
SLHC18U346250-3	HPLC Column,C18-Universal,3µm,300Å,4.6x250mm	1
SLHC18U52130	HPLC Column,C18-Universal,5µm,120Å,2.1x30mm	1
SLHC18U52133	HPLC Column,C18-Universal,5µm,120Å,2.1x33mm	1
SLHC18U52150	HPLC Column,C18-Universal,5µm,120Å,2.1x50mm	1
SLHC18U52175	HPLC Column,C18-Universal,5µm,120Å,2.1x75mm	1
SLHC18U521100	HPLC Column,C18-Universal,5µm,120Å,2.1x100mm	1
SLHC18U521125	HPLC Column,C18-Universal,5µm,120Å,2.1x125mm	1
SLHC18U521150	HPLC Column,C18-Universal,5µm,120Å,2.1x150mm	1
SLHC18U521200	HPLC Column,C18-Universal,5µm,120Å,2.1x200mm	1
SLHC18U521250	HPLC Column,C18-Universal,5µm,120Å,2.1x250mm	1
SLHC18U53030	HPLC Column,C18-Universal,5µm,120Å,3.0x30mm	1
SLHC18U53050	HPLC Column,C18-Universal,5µm,120Å,3.0x50mm	1
SLHC18U53075	HPLC Column,C18-Universal,5µm,120Å,3.0x75mm	1
SLHC18U530100	HPLC Column,C18-Universal,5µm,120Å,3.0x100mm	1
SLHC18U530125	HPLC Column,C18-Universal,5µm,120Å,3.0x125mm	1
SLHC18U530150	HPLC Column,C18-Universal,5µm,120Å,3.0x150mm	1
SLHC18U530200	HPLC Column,C18-Universal,5µm,120Å,3.0x200mm	1
SLHC18U530250	HPLC Column,C18-Universal,5µm,120Å,3.0x250mm	1
SLHC18U54040	HPLC Column,C18-Universal,5µm,120Å,4.0x30mm	1
SLHC18U54050	HPLC Column,C18-Universal,5µm,120Å,4.0x50mm	1
SLHC18U54075	HPLC Column,C18-Universal,5µm,120Å,4.0x75mm	1
SLHC18U540100	HPLC Column,C18-Universal,5µm,120Å,4.0x100mm	1
SLHC18U540125	HPLC Column,C18-Universal,5µm,120Å,4.0x125mm	1
SLHC18U539150	HPLC Column,C18-Universal,5µm,120Å,3.9x150mm	1

SLHC18U540150	HPLC Column,C18-Universal,5µm,120Å,4.0x150mm	1
SLHC18U540200	HPLC Column,C18-Universal,5µm,120Å,4.0x200mm	1
SLHC18U539250	HPLC Column,C18-Universal,5µm,120Å,3.9x250mm	1
SLHC18U540250	HPLC Column,C18-Universal,5µm,120Å,4.0x250mm	1
SLHC18U539300	HPLC Column,C18-Universal,5µm,120Å,3.9x300mm	1
SLHC18U540300	HPLC Column,C18-Universal,5µm,120Å,4.0x300mm	1
SLHC18U54646	HPLC Column,C18-Universal,5µm,120Å,4.6x30mm	1
SLHC18U54650	HPLC Column,C18-Universal,5µm,120Å,4.6x50mm	1
SLHC18U54675	HPLC Column,C18-Universal,5µm,120Å,4.6x75mm	1
SLHC18U546100	HPLC Column,C18-Universal,5µm,120Å,4.6x100mm	1
SLHC18U546125	HPLC Column,C18-Universal,5µm,120Å,4.6x125mm	1
SLHC18U546150	HPLC Column,C18-Universal,5µm,120Å,4.6x150mm	1
SLHC18U546200	HPLC Column,C18-Universal,5µm,120Å,4.6x200mm	1
SLHC18U546250	HPLC Column,C18-Universal,5µm,120Å,4.6x250mm	1
SLHC18U546300	HPLC Column,C18-Universal,5µm,120Å,4.6x300mm	1
SLHC18U560150	HPLC Column,C18-Universal,5µm,120Å,6.0x150mm	1
SLHC18U560250	HPLC Column,C18-Universal,5µm,120Å,6.0x250mm	1
SLHC18U565150	HPLC Column,C18-Universal,5µm,120Å,6.5x150mm	1
SLHC18U565250	HPLC Column,C18-Universal,5µm,120Å,6.5x250mm	1
SLHC18U578100	HPLC Column,C18-Universal,5µm,120Å,7.8x100mm	1
SLHC18U578150	HPLC Column,C18-Universal,5µm,120Å,7.8x150mm	1
SLHC18U578250	HPLC Column,C18-Universal,5µm,120Å,7.8x250mm	1
SLHC18U52150-3	HPLC Column,C18-Universal,5µm,300Å,2.1x50mm	1
SLHC18U521100-3	HPLC Column,C18-Universal,5µm,300Å,2.1x100mm	1
SLHC18U521150-3	HPLC Column,C18-Universal,5µm,300Å,2.1x150mm	1
SLHC18U53050-3	HPLC Column,C18-Universal,5µm,300Å,3.0x50mm	1
SLHC18U530100-3	HPLC Column,C18-Universal,5µm,300Å,3.0x100mm	1
SLHC18U530150-3	HPLC Column,C18-Universal,5µm,300Å,3.0x150mm	1
SLHC18U54050-3	HPLC Column,C18-Universal,5µm,300Å,4.0x50mm	1
SLHC18U540100-3	HPLC Column,C18-Universal,5µm,300Å,4.0x100mm	1
SLHC18U539150-3	HPLC Column,C18-Universal,5µm,300Å,3.9x150mm	1
SLHC18U540150-3	HPLC Column,C18-Universal,5µm,300Å,4.0x150mm	1
SLHC18U54650-3	HPLC Column,C18-Universal,5µm,300Å,4.6x50mm	1
SLHC18U546100-3	HPLC Column,C18-Universal,5µm,300Å,4.6x100mm	1
SLHC18U546150-3	HPLC Column,C18-Universal,5µm,300Å,4.6x150mm	1
SLHC18U546200-3	HPLC Column,C18-Universal,5µm,300Å,4.6x200mm	1
SLHC18U546250-3	HPLC Column,C18-Universal,5µm,300Å,4.6x250mm	1
SLHC18U1040250	HPLC Column,C18-Universal,10µm,120Å,4.0x250mm	1

SLHC18U1039300	HPLC Column,C18-Universal,10µm,120Å,3.9x300mm	1
SLHC18U1040300	HPLC Column,C18-Universal,10µm,120Å,4.0x300mm	1
SLHC18U1046150	HPLC Column,C18-Universal,10µm,120Å,4.6x150mm	1
SLHC18U1046200	HPLC Column,C18-Universal,10µm,120Å,4.6x200mm	1
SLHC18U1046250	HPLC Column,C18-Universal,10µm,120Å,4.6x250mm	1
SLHC18U1046300	HPLC Column,C18-Universal,10µm,120Å,4.6x300mm	1

### 1.3 C18-Low PH Columns

#### Description

C18-Low PH is designed for use at low pH condition, which consists of two very bulky hydrophobic protective groups to prevent siloxane bond from hydrolysis at low pH condition. So this column is extremely stable in very low pH mobile phase and at high temperature, even at the lowest pH 0.5, making it the most stable C18 for low pH application in the market. Because it is not end-capped and has more surface silanols, it has more retention for some early eluted polar compounds, and provides some different selectivity than traditional C18. C18-Low PH is the most polar C18 among all the C18 products of Hawach Scientific.

1. Not end-capped, prevent siloxane bond from hydrolysis at low pH condition.
2. Endure 100% water as the mobile phase, similar to "C18-Aqueous".
3. Best peak shape for polar compounds analysis.
4. Exceptional lifetime at low pH (0.5-8.0) and high temperature.
5. 300Å C18-Low PH is exclusively used for separation of polypeptide and protein.
6. The substitution of Agilent Zorbax SB

#### Order Information

Item No	Description	Package (pcs/pk)
SLHC18L32130	HPLC Column,C18-Low PH,3µm,120Å,2.1x30mm	1
SLHC18L32133	HPLC Column,C18-Low PH,3µm,120Å,2.1x33mm	1
SLHC18L32150	HPLC Column,C18-Low PH,3µm,120Å,2.1x50mm	1
SLHC18L32175	HPLC Column,C18-Low PH,3µm,120Å,2.1x75mm	1
SLHC18L321100	HPLC Column,C18-Low PH,3µm,120Å,2.1x100mm	1
SLHC18L321125	HPLC Column,C18-Low PH,3µm,120Å,2.1x125mm	1
SLHC18L321150	HPLC Column,C18-Low PH,3µm,120Å,2.1x150mm	1
SLHC18L321200	HPLC Column,C18-Low PH,3µm,120Å,2.1x200mm	1
SLHC18L321250	HPLC Column,C18-Low PH,3µm,120Å,2.1x250mm	1
SLHC18L33030	HPLC Column,C18-Low PH,3µm,120Å,3.0x30mm	1
SLHC18L33050	HPLC Column,C18-Low PH,3µm,120Å,3.0x50mm	1
SLHC18L33075	HPLC Column,C18-Low PH,3µm,120Å,3.0x75mm	1

SLHC18L330100	HPLC Column,C18-Low PH,3µm,120Å,3.0x100mm	1
SLHC18L330125	HPLC Column,C18-Low PH,3µm,120Å,3.0x125mm	1
SLHC18L330150	HPLC Column,C18-Low PH,3µm,120Å,3.0x150mm	1
SLHC18L330200	HPLC Column,C18-Low PH,3µm,120Å,3.0x200mm	1
SLHC18L330250	HPLC Column,C18-Low PH,3µm,120Å,3.0x250mm	1
SLHC18L34030	HPLC Column,C18-Low PH,3µm,120Å,4.0x30mm	1
SLHC18L34050	HPLC Column,C18-Low PH,3µm,120Å,4.0x50mm	1
SLHC18L34075	HPLC Column,C18-Low PH,3µm,120Å,4.0x75mm	1
SLHC18L340100	HPLC Column,C18-Low PH,3µm,120Å,4.0x100mm	1
SLHC18L340125	HPLC Column,C18-Low PH,3µm,120Å,4.0x125mm	1
SLHC18L339150	HPLC Column,C18-Low PH,3µm,120Å,3.9x150mm	1
SLHC18L340150	HPLC Column,C18-Low PH,3µm,120Å,4.0x150mm	1
SLHC18L340200	HPLC Column,C18-Low PH,3µm,120Å,4.0x200mm	1
SLHC18L339250	HPLC Column,C18-Low PH,3µm,120Å,3.9x250mm	1
SLHC18L340250	HPLC Column,C18-Low PH,3µm,120Å,4.0x250mm	1
SLHC18L34630	HPLC Column,C18-Low PH,3µm,120Å,4.6x30mm	1
SLHC18L34633	HPLC Column,C18-Low PH,3µm,120Å,4.6x33mm	1
SLHC18L34650	HPLC Column,C18-Low PH,3µm,120Å,4.6x50mm	1
SLHC18L34675	HPLC Column,C18-Low PH,3µm,120Å,4.6x75mm	1
SLHC18L346100	HPLC Column,C18-Low PH,3µm,120Å,4.6x100mm	1
SLHC18L346125	HPLC Column,C18-Low PH,3µm,120Å,4.6x125mm	1
SLHC18L346150	HPLC Column,C18-Low PH,3µm,120Å,4.6x150mm	1
SLHC18L346200	HPLC Column,C18-Low PH,3µm,120Å,4.6x200mm	1
SLHC18L346250	HPLC Column,C18-Low PH,3µm,120Å,4.6x250mm	1
SLHC18L52130	HPLC Column,C18-Low PH,5µm,120Å,2.1x30mm	1
SLHC18L52133	HPLC Column,C18-Low PH,5µm,120Å,2.1x33mm	1
SLHC18L52150	HPLC Column,C18-Low PH,5µm,120Å,2.1x50mm	1
SLHC18L52175	HPLC Column,C18-Low PH,5µm,120Å,2.1x75mm	1
SLHC18L521100	HPLC Column,C18-Low PH,5µm,120Å,2.1x100mm	1
SLHC18L521125	HPLC Column,C18-Low PH,5µm,120Å,2.1x125mm	1
SLHC18L521150	HPLC Column,C18-Low PH,5µm,120Å,2.1x150mm	1
SLHC18L521200	HPLC Column,C18-Low PH,5µm,120Å,2.1x200mm	1
SLHC18L521250	HPLC Column,C18-Low PH,5µm,120Å,2.1x250mm	1
SLHC18L53030	HPLC Column,C18-Low PH,5µm,120Å,3.0x30mm	1
SLHC18L53050	HPLC Column,C18-Low PH,5µm,120Å,3.0x50mm	1
SLHC18L53075	HPLC Column,C18-Low PH,5µm,120Å,3.0x75mm	1
SLHC18L530100	HPLC Column,C18-Low PH,5µm,120Å,3.0x100mm	1
SLHC18L530125	HPLC Column,C18-Low PH,5µm,120Å,3.0x125mm	1

SLHC18L530150	HPLC Column,C18-Low PH,5µm,120Å,3.0x150mm	1
SLHC18L530200	HPLC Column,C18-Low PH,5µm,120Å,3.0x200mm	1
SLHC18L530250	HPLC Column,C18-Low PH,5µm,120Å,3.0x250mm	1
SLHC18L54030	HPLC Column,C18-Low PH,5µm,120Å,4.0x30mm	1
SLHC18L54050	HPLC Column,C18-Low PH,5µm,120Å,4.0x50mm	1
SLHC18L54075	HPLC Column,C18-Low PH,5µm,120Å,4.0x75mm	1
SLHC18L540100	HPLC Column,C18-Low PH,5µm,120Å,4.0x100mm	1
SLHC18L540125	HPLC Column,C18-Low PH,5µm,120Å,4.0x125mm	1
SLHC18L539150	HPLC Column,C18-Low PH,5µm,120Å,3.9x150mm	1
SLHC18L540150	HPLC Column,C18-Low PH,5µm,120Å,4.0x150mm	1
SLHC18L540200	HPLC Column,C18-Low PH,5µm,120Å,4.0x200mm	1
SLHC18L539250	HPLC Column,C18-Low PH,5µm,120Å,3.9x250mm	1
SLHC18L540250	HPLC Column,C18-Low PH,5µm,120Å,4.0x250mm	1
SLHC18L539300	HPLC Column,C18-Low PH,5µm,120Å,3.9x300mm	1
SLHC18L540300	HPLC Column,C18-Low PH,5µm,120Å,4.0x300mm	1
SLHC18L54630	HPLC Column,C18-Low PH,5µm,120Å,4.6x30mm	1
SLHC18L54633	HPLC Column,C18-Low PH,5µm,120Å,4.6x33mm	1
SLHC18L54650	HPLC Column,C18-Low PH,5µm,120Å,4.6x50mm	1
SLHC18L54675	HPLC Column,C18-Low PH,5µm,120Å,4.6x75mm	1
SLHC18L546100	HPLC Column,C18-Low PH,5µm,120Å,4.6x100mm	1
SLHC18L546125	HPLC Column,C18-Low PH,5µm,120Å,4.6x125mm	1
SLHC18L546150	HPLC Column,C18-Low PH,5µm,120Å,4.6x150mm	1
SLHC18L546200	HPLC Column,C18-Low PH,5µm,120Å,4.6x200mm	1
SLHC18L546250	HPLC Column,C18-Low PH,5µm,120Å,4.6x250mm	1
SLHC18L546300	HPLC Column,C18-Low PH,5µm,120Å,4.6x300mm	1
SLHC18L560150	HPLC Column,C18-Low PH,5µm,120Å,6.0x150mm	1
SLHC18L560250	HPLC Column,C18-Low PH,5µm,120Å,6.0x250mm	1
SLHC18L565150	HPLC Column,C18-Low PH,5µm,120Å,6.5x150mm	1
SLHC18L565250	HPLC Column,C18-Low PH,5µm,120Å,6.5x250mm	1
SLHC18L578100	HPLC Column,C18-Low PH,5µm,120Å,7.8x100mm	1
SLHC18L578150	HPLC Column,C18-Low PH,5µm,120Å,7.8x150mm	1
SLHC18L578250	HPLC Column,C18-Low PH,5µm,120Å,7.8x250mm	1
SLHC18L546250-3	HPLC Column,C18-Low PH,5µm,300Å,4.6x250mm	1

## 1.4 C18-Alkaline Columns

### Description

C18-Alkaline is the new generation C18 column. Hydrophilic groups are embedding into the ultra-pure silica to make it Hydrophilic. Hydrophilic groups replace most of the silanol groups to prevent the reaction between the basic compounds and silanol groups. Selectivity of C18-Alkaline is different from traditional reversed C18, so it provides one more solution for method developing.

### Features:

1. Mixed stationary phase, has hydrophobic forces and electrostatic forces
2. Excellent peak shape for basic compounds
3. Separate similar compounds faster in one column

### Order Information

Item No	Description	Package (pcs/pk)
SLHC18AL546150	HPLC Column,C18-Alkaline,5 $\mu$ m,120Å,4.6x150mm	1
SLHC18AL546250	HPLC Column,C18- Alkaline,5 $\mu$ m,120Å,4.6x250mm	1

## 1.5 C8-Universal Columns

### Description

Less Retentive than C18-Universal

The C8-Universal phase is less retentive than C18-Universal phase, more useful for compounds that are too strongly retained on C18 phase, and for LC/MS applications, where the long retention is not required. When separating neutral or other highly retained compounds, using C8-Universal can save analytical time. However, when separating polar compounds, C8-Universal provides alternative selectivity than C18-Universal column.

1. Selectivity choices for method development optimization.
2. Good peak shape for basic, acidic and neutral compounds.
3. High performance over a wide pH range (1.5-10)
4. Particle sizes from 3 to 10 $\mu$ m.
5. Long lifetime with extra dense bonding and double end-capping

### Order Information

Item No	Description	Package (pcs/pk)
SLHC8U32130	HPLC Column,C8-Universal,3µm,120Å,2.1x30mm	1
SLHC8U32133	HPLC Column,C8-Universal,3µm,120Å,2.1x33mm	1
SLHC8U32150	HPLC Column,C8-Universal,3µm,120Å,2.1x50mm	1
SLHC8U32175	HPLC Column,C8-Universal,3µm,120Å,2.1x75mm	1
SLHC8U321100	HPLC Column,C8-Universal,3µm,120Å,2.1x100mm	1
SLHC8U321125	HPLC Column,C8-Universal,3µm,120Å,2.1x125mm	1
SLHC8U321150	HPLC Column,C8-Universal,3µm,120Å,2.1x150mm	1
SLHC8U321200	HPLC Column,C8-Universal,3µm,120Å,2.1x200mm	1
SLHC8U321250	HPLC Column,C8-Universal,3µm,120Å,2.1x250mm	1
SLHC8U33030	HPLC Column,C8-Universal,3µm,120Å,3.0x30mm	1
SLHC8U33050	HPLC Column,C8-Universal,3µm,120Å,3.0x50mm	1
SLHC8U33075	HPLC Column,C8-Universal,3µm,120Å,3.0x75mm	1
SLHC8U330100	HPLC Column,C8-Universal,3µm,120Å,3.0x100mm	1
SLHC8U330125	HPLC Column,C8-Universal,3µm,120Å,3.0x125mm	1
SLHC8U330150	HPLC Column,C8-Universal,3µm,120Å,3.0x150mm	1
SLHC8U330200	HPLC Column,C8-Universal,3µm,120Å,3.0x200mm	1
SLHC8U330250	HPLC Column,C8-Universal,3µm,120Å,3.0x250mm	1
SLHC8U34040	HPLC Column,C8-Universal,3µm,120Å,4.0x30mm	1
SLHC8U34050	HPLC Column,C8-Universal,3µm,120Å,4.0x50mm	1
SLHC8U34075	HPLC Column,C8-Universal,3µm,120Å,4.0x75mm	1
SLHC8U340100	HPLC Column,C8-Universal,3µm,120Å,4.0x100mm	1
SLHC8U340125	HPLC Column,C8-Universal,3µm,120Å,4.0x125mm	1
SLHC8U339150	HPLC Column,C8-Universal,3µm,120Å,3.9x150mm	1
SLHC8U340150	HPLC Column,C8-Universal,3µm,120Å,4.0x150mm	1
SLHC8U340200	HPLC Column,C8-Universal,3µm,120Å,4.0x200mm	1
SLHC8U339250	HPLC Column,C8-Universal,3µm,120Å,3.9x250mm	1
SLHC8U340250	HPLC Column,C8-Universal,3µm,120Å,4.0x250mm	1
SLHC8U34646	HPLC Column,C8-Universal,3µm,120Å,4.6x30mm	1
SLHC8U34633	HPLC Column,C8-Universal,3µm,120Å,4.6x33mm	1
SLHC8U34650	HPLC Column,C8-Universal,3µm,120Å,4.6x50mm	1
SLHC8U34675	HPLC Column,C8-Universal,3µm,120Å,4.6x75mm	1
SLHC8U346100	HPLC Column,C8-Universal,3µm,120Å,4.6x100mm	1
SLHC8U346125	HPLC Column,C8-Universal,3µm,120Å,4.6x125mm	1
SLHC8U346150	HPLC Column,C8-Universal,3µm,120Å,4.6x150mm	1
SLHC8U346200	HPLC Column,C8-Universal,3µm,120Å,4.6x200mm	1



SLHC8U346250	HPLC Column,C8-Universal,3µm,120Å,4.6x250mm	1
SLHC8U52130	HPLC Column,C8-Universal,5µm,120Å,2.1x30mm	1
SLHC8U52133	HPLC Column,C8-Universal,5µm,120Å,2.1x33mm	1
SLHC8U52150	HPLC Column,C8-Universal,5µm,120Å,2.1x50mm	1
SLHC8U52175	HPLC Column,C8-Universal,5µm,120Å,2.1x75mm	1
SLHC8U521100	HPLC Column,C8-Universal,5µm,120Å,2.1x100mm	1
SLHC8U521125	HPLC Column,C8-Universal,5µm,120Å,2.1x125mm	1
SLHC8U521150	HPLC Column,C8-Universal,5µm,120Å,2.1x150mm	1
SLHC8U521200	HPLC Column,C8-Universal,5µm,120Å,2.1x200mm	1
SLHC8U521250	HPLC Column,C8-Universal,5µm,120Å,2.1x250mm	1
SLHC8U53030	HPLC Column,C8-Universal,5µm,120Å,3.0x30mm	1
SLHC8U53050	HPLC Column,C8-Universal,5µm,120Å,3.0x50mm	1
SLHC8U53075	HPLC Column,C8-Universal,5µm,120Å,3.0x75mm	1
SLHC8U530100	HPLC Column,C8-Universal,5µm,120Å,3.0x100mm	1
SLHC8U530125	HPLC Column,C8-Universal,5µm,120Å,3.0x125mm	1
SLHC8U530150	HPLC Column,C8-Universal,5µm,120Å,3.0x150mm	1
SLHC8U530200	HPLC Column,C8-Universal,5µm,120Å,3.0x200mm	1
SLHC8U530250	HPLC Column,C8-Universal,5µm,120Å,3.0x250mm	1
SLHC8U54040	HPLC Column,C8-Universal,5µm,120Å,4.0x30mm	1
SLHC8U54050	HPLC Column,C8-Universal,5µm,120Å,4.0x50mm	1
SLHC8U54075	HPLC Column,C8-Universal,5µm,120Å,4.0x75mm	1
SLHC8U540100	HPLC Column,C8-Universal,5µm,120Å,4.0x100mm	1
SLHC8U540125	HPLC Column,C8-Universal,5µm,120Å,4.0x125mm	1
SLHC8U539150	HPLC Column,C8-Universal,5µm,120Å,3.9x150mm	1
SLHC8U540150	HPLC Column,C8-Universal,5µm,120Å,4.0x150mm	1
SLHC8U540200	HPLC Column,C8-Universal,5µm,120Å,4.0x200mm	1
SLHC8U539250	HPLC Column,C8-Universal,5µm,120Å,3.9x250mm	1
SLHC8U540250	HPLC Column,C8-Universal,5µm,120Å,4.0x250mm	1
SLHC8U539300	HPLC Column,C8-Universal,5µm,120Å,3.9x300mm	1
SLHC8U540300	HPLC Column,C8-Universal,5µm,120Å,4.0x300mm	1
SLHC8U54646	HPLC Column,C8-Universal,5µm,120Å,4.6x30mm	1
SLHC8U54633	HPLC Column,C8-Universal,5µm,120Å,4.6x33mm	1
SLHC8U54650	HPLC Column,C8-Universal,5µm,120Å,4.6x50mm	1
SLHC8U54675	HPLC Column,C8-Universal,5µm,120Å,4.6x75mm	1
SLHC8U546100	HPLC Column,C8-Universal,5µm,120Å,4.6x100mm	1
SLHC8U546125	HPLC Column,C8-Universal,5µm,120Å,4.6x125mm	1
SLHC8U546150	HPLC Column,C8-Universal,5µm,120Å,4.6x150mm	1
SLHC8U546200	HPLC Column,C8-Universal,5µm,120Å,4.6x200mm	1

SLHC8U546250	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC8U546300	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1
SLHC8U560150	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,6.0x150mm	1
SLHC8U560250	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,6.0x250mm	1
SLHC8U565150	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,6.5x150mm	1
SLHC8U565250	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,6.5x250mm	1
SLHC8U578100	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,7.8x100mm	1
SLHC8U578150	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,7.8x150mm	1
SLHC8U578250	HPLC Column,C8-Universal,5 $\mu$ m,120 $\text{\AA}$ ,7.8x250mm	1
SLHC8U546250-3	HPLC Column,C8-Universal,5 $\mu$ m,300 $\text{\AA}$ ,4.6x250mm	1
SLHC8U1039300	HPLC Column,C8-Universal,10 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHC8U1040300	HPLC Column,C8-Universal,10 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHC8U1046150	HPLC Column,C8-Universal,10 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHC8U1046200	HPLC Column,C8-Universal,10 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHC8U1046250	HPLC Column,C8-Universal,10 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC8U1046300	HPLC Column,C8-Universal,10 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1

## 1.6 C8-Low PH Columns

### Description

1. Low pH tolerance: 0.5~8
2. Resistant 100% aqueous phase
3. Strong retention capacity for strong polar compounds
4. The same bonding process with C18-fluorine, the same characteristics with C18-fluorine
5. Classic reversed phase retention and selectivity that is a little smaller than C18-fluorine
6. Provide 300 $\text{\AA}$  pore size

### Order Information

Item No	Description	Package (pcs/pk)
SLHC8L32130	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHC8L32133	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHC8L32150	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHC8L32175	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHC8L321100	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHC8L321125	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1

SLHC8L321150	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHC8L321200	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHC8L321250	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHC8L33030	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHC8L33050	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHC8L33075	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHC8L330100	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHC8L330125	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHC8L330150	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHC8L330200	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHC8L330250	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHC8L34030	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHC8L34050	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHC8L34075	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHC8L340100	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHC8L340125	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHC8L339150	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHC8L340150	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHC8L340200	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHC8L339250	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHC8L340250	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHC8L34630	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHC8L34633	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHC8L34650	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHC8L34675	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHC8L346100	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHC8L346125	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHC8L346150	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHC8L346200	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHC8L346250	HPLC Column,C8-Low PH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC8L52130	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHC8L52133	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHC8L52150	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHC8L52175	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHC8L521100	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHC8L521125	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHC8L521150	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHC8L521200	HPLC Column,C8-Low PH,5 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1

SLHC8L521250	HPLC Column,C8-Low PH,5µm,120Å,2.1x250mm	1
SLHC8L53030	HPLC Column,C8-Low PH,5µm,120Å,3.0x30mm	1
SLHC8L53050	HPLC Column,C8-Low PH,5µm,120Å,3.0x50mm	1
SLHC8L53075	HPLC Column,C8-Low PH,5µm,120Å,3.0x75mm	1
SLHC8L530100	HPLC Column,C8-Low PH,5µm,120Å,3.0x100mm	1
SLHC8L530125	HPLC Column,C8-Low PH,5µm,120Å,3.0x125mm	1
SLHC8L530150	HPLC Column,C8-Low PH,5µm,120Å,3.0x150mm	1
SLHC8L530200	HPLC Column,C8-Low PH,5µm,120Å,3.0x200mm	1
SLHC8L530250	HPLC Column,C8-Low PH,5µm,120Å,3.0x250mm	1
SLHC8L54030	HPLC Column,C8-Low PH,5µm,120Å,4.0x30mm	1
SLHC8L54050	HPLC Column,C8-Low PH,5µm,120Å,4.0x50mm	1
SLHC8L54075	HPLC Column,C8-Low PH,5µm,120Å,4.0x75mm	1
SLHC8L540100	HPLC Column,C8-Low PH,5µm,120Å,4.0x100mm	1
SLHC8L540125	HPLC Column,C8-Low PH,5µm,120Å,4.0x125mm	1
SLHC8L539150	HPLC Column,C8-Low PH,5µm,120Å,3.9x150mm	1
SLHC8L540150	HPLC Column,C8-Low PH,5µm,120Å,4.0x150mm	1
SLHC8L540200	HPLC Column,C8-Low PH,5µm,120Å,4.0x200mm	1
SLHC8L539250	HPLC Column,C8-Low PH,5µm,120Å,3.9x250mm	1
SLHC8L540250	HPLC Column,C8-Low PH,5µm,120Å,4.0x250mm	1
SLHC8L539300	HPLC Column,C8-Low PH,5µm,120Å,3.9x300mm	1
SLHC8L540300	HPLC Column,C8-Low PH,5µm,120Å,4.0x300mm	1
SLHC8L54630	HPLC Column,C8-Low PH,5µm,120Å,4.6x30mm	1
SLHC8L54633	HPLC Column,C8-Low PH,5µm,120Å,4.6x33mm	1
SLHC8L54650	HPLC Column,C8-Low PH,5µm,120Å,4.6x50mm	1
SLHC8L54675	HPLC Column,C8-Low PH,5µm,120Å,4.6x75mm	1
SLHC8L546100	HPLC Column,C8-Low PH,5µm,120Å,4.6x100mm	1
SLHC8L546125	HPLC Column,C8-Low PH,5µm,120Å,4.6x125mm	1
SLHC8L546150	HPLC Column,C8-Low PH,5µm,120Å,4.6x150mm	1
SLHC8L546200	HPLC Column,C8-Low PH,5µm,120Å,4.6x200mm	1
SLHC8L546250	HPLC Column,C8-Low PH,5µm,120Å,4.6x250mm	1
SLHC8L546300	HPLC Column,C8-Low PH,5µm,120Å,4.6x300mm	1
SLHC8L560150	HPLC Column,C8-Low PH,5µm,120Å,6.0x150mm	1
SLHC8L560250	HPLC Column,C8-Low PH,5µm,120Å,6.0x250mm	1
SLHC8L565150	HPLC Column,C8-Low PH,5µm,120Å,6.5x150mm	1
SLHC8L565250	HPLC Column,C8-Low PH,5µm,120Å,6.5x250mm	1
SLHC8L578100	HPLC Column,C8-Low PH,5µm,120Å,7.8x100mm	1
SLHC8L578150	HPLC Column,C8-Low PH,5µm,120Å,7.8x150mm	1
SLHC8L578250	HPLC Column,C8-Low PH,5µm,120Å,7.8x250mm	1

SLHC8L546250-3	HPLC Column,C8-Low PH,5µm,300Å,4.6x250mm	1
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## 1.7 C8-Fluorine Columns

### Description

C8-Fluorine column has high selectivity and increased retention toward halogenated aromatic and alkyl compounds, just different from octal alkyl phase.

### Order Information

Item No	Description	Package (pcs/pk)
SLHC8F32130	HPLC Column,C8-Fluorine,3µm,120Å,2.1x30mm	1
SLHC8F32133	HPLC Column,C8-Fluorine,3µm,120Å,2.1x33mm	1
SLHC8F32150	HPLC Column,C8-Fluorine,3µm,120Å,2.1x50mm	1
SLHC8F32175	HPLC Column,C8-Fluorine,3µm,120Å,2.1x75mm	1
SLHC8F321100	HPLC Column,C8-Fluorine,3µm,120Å,2.1x100mm	1
SLHC8F321125	HPLC Column,C8-Fluorine,3µm,120Å,2.1x125mm	1
SLHC8F321150	HPLC Column,C8-Fluorine,3µm,120Å,2.1x150mm	1
SLHC8F321200	HPLC Column,C8-Fluorine,3µm,120Å,2.1x200mm	1
SLHC8F321250	HPLC Column,C8-Fluorine,3µm,120Å,2.1x250mm	1
SLHC8F33030	HPLC Column,C8-Fluorine,3µm,120Å,3.0x30mm	1
SLHC8F33050	HPLC Column,C8-Fluorine,3µm,120Å,3.0x50mm	1
SLHC8F33075	HPLC Column,C8-Fluorine,3µm,120Å,3.0x75mm	1
SLHC8F330100	HPLC Column,C8-Fluorine,3µm,120Å,3.0x100mm	1
SLHC8F330125	HPLC Column,C8-Fluorine,3µm,120Å,3.0x125mm	1
SLHC8F330150	HPLC Column,C8-Fluorine,3µm,120Å,3.0x150mm	1
SLHC8F330200	HPLC Column,C8-Fluorine,3µm,120Å,3.0x200mm	1
SLHC8F330250	HPLC Column,C8-Fluorine,3µm,120Å,3.0x250mm	1
SLHC8F34030	HPLC Column,C8-Fluorine,3µm,120Å,4.0x30mm	1
SLHC8F34050	HPLC Column,C8-Fluorine,3µm,120Å,4.0x50mm	1
SLHC8F34075	HPLC Column,C8-Fluorine,3µm,120Å,4.0x75mm	1
SLHC8F340100	HPLC Column,C8-Fluorine,3µm,120Å,4.0x100mm	1
SLHC8F340125	HPLC Column,C8-Fluorine,3µm,120Å,4.0x125mm	1
SLHC8F339150	HPLC Column,C8-Fluorine,3µm,120Å,3.9x150mm	1
SLHC8F340150	HPLC Column,C8-Fluorine,3µm,120Å,4.0x150mm	1
SLHC8F340200	HPLC Column,C8-Fluorine,3µm,120Å,4.0x200mm	1
SLHC8F339250	HPLC Column,C8-Fluorine,3µm,120Å,3.9x250mm	1

SLHC8F340250	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHC8F34630	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHC8F34633	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHC8F34650	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHC8F34675	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHC8F346100	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHC8F346125	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHC8F346150	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHC8F346200	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHC8F346250	HPLC Column,C8-Fluorine,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC8F52130	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHC8F52133	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHC8F52150	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHC8F52175	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHC8F521100	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHC8F521125	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHC8F521150	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHC8F521200	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHC8F521250	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHC8F53030	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHC8F53050	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHC8F53075	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHC8F530100	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHC8F530125	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHC8F530150	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHC8F530200	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHC8F530250	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHC8F54030	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHC8F54050	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHC8F54075	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHC8F540100	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHC8F540125	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHC8F539150	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHC8F540150	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHC8F540200	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHC8F539250	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHC8F540250	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1

SLHC8F539300	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHC8F540300	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHC8F54630	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHC8F54633	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHC8F54650	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHC8F54675	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHC8F546100	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHC8F546125	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHC8F546150	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHC8F546200	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHC8F546250	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHC8F546300	HPLC Column,C8-Fluorine,5 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1

## 1.8 C1 Columns

### Description

C1 column is also called trimethyl silane bonded column, the column is based on ultrapure silica.

1. Suitable for hydrophilic, strong polarity and other samples which are hard to be separated on reversed-phase and normal-phase columns.
2. Reversed-phase mode can be used for separation of hydrophobic peptide and protein.
3. Normal-phase mode can be used for separation of high polar compounds.

### Order Information

Item No	Description	Package (pcs/pk)
SLHC1546250	HPLC Column,C1,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1

## 1.9 C4 Columns

### Description

1. Strong retention for hydrophobic and polar compounds
2. Unique bonding technology, high bonding phase coverage rate
3. Unique completely double end-capped technology, eliminate the influence of residual silicon hydroxyl, have good peak shape when separate alkaline and strong polar compounds
4. Provide 300 $\text{\AA}$  pore size for separation and analysis of biological proteins
5. Sharp peak shape, high column efficiency



### Order Information

Item No	Description	Package (pcs/pk)
SLHC432130	HPLC Column,C4,3μm,120Å,2.1x30mm	1
SLHC432133	HPLC Column,C4,3μm,120Å,2.1x33mm	1
SLHC432150	HPLC Column,C4,3μm,120Å,2.1x50mm	1
SLHC432175	HPLC Column,C4,3μm,120Å,2.1x75mm	1
SLHC4321100	HPLC Column,C4,3μm,120Å,2.1x100mm	1
SLHC4321125	HPLC Column,C4,3μm,120Å,2.1x125mm	1
SLHC4321150	HPLC Column,C4,3μm,120Å,2.1x150mm	1
SLHC4321200	HPLC Column,C4,3μm,120Å,2.1x200mm	1
SLHC4321250	HPLC Column,C4,3μm,120Å,2.1x250mm	1
SLHC433030	HPLC Column,C4,3μm,120Å,3.0x30mm	1
SLHC433050	HPLC Column,C4,3μm,120Å,3.0x50mm	1
SLHC433075	HPLC Column,C4,3μm,120Å,3.0x75mm	1
SLHC4330100	HPLC Column,C4,3μm,120Å,3.0x100mm	1
SLHC4330125	HPLC Column,C4,3μm,120Å,3.0x125mm	1
SLHC4330150	HPLC Column,C4,3μm,120Å,3.0x150mm	1
SLHC4330200	HPLC Column,C4,3μm,120Å,3.0x200mm	1
SLHC4330250	HPLC Column,C4,3μm,120Å,3.0x250mm	1
SLHC434030	HPLC Column,C4,3μm,120Å,4.0x30mm	1
SLHC434050	HPLC Column,C4,3μm,120Å,4.0x50mm	1
SLHC434075	HPLC Column,C4,3μm,120Å,4.0x75mm	1
SLHC4340100	HPLC Column,C4,3μm,120Å,4.0x100mm	1
SLHC4340125	HPLC Column,C4,3μm,120Å,4.0x125mm	1
SLHC4339150	HPLC Column,C4,3μm,120Å,3.9x150mm	1
SLHC4340150	HPLC Column,C4,3μm,120Å,4.0x150mm	1
SLHC4340200	HPLC Column,C4,3μm,120Å,4.0x200mm	1
SLHC4339250	HPLC Column,C4,3μm,120Å,3.9x250mm	1
SLHC4340250	HPLC Column,C4,3μm,120Å,4.0x250mm	1
SLHC434630	HPLC Column,C4,3μm,120Å,4.6x30mm	1
SLHC434633	HPLC Column,C4,3μm,120Å,4.6x33mm	1
SLHC434650	HPLC Column,C4,3μm,120Å,4.6x50mm	1
SLHC434675	HPLC Column,C4,3μm,120Å,4.6x75mm	1
SLHC4346100	HPLC Column,C4,3μm,120Å,4.6x100mm	1
SLHC4346125	HPLC Column,C4,3μm,120Å,4.6x125mm	1
SLHC4346150	HPLC Column,C4,3μm,120Å,4.6x150mm	1

SLHC4346200	HPLC Column,C4,3µm,120Å,4.6x200mm	1
SLHC4346250	HPLC Column,C4,3µm,120Å,4.6x250mm	1
SLHC432150-3	HPLC Column,C4,3µm,300Å,2.1x50mm	1
SLHC4321100-3	HPLC Column,C4,3µm,300Å,2.1x100mm	1
SLHC4321150-3	HPLC Column,C4,3µm,300Å,2.1x150mm	1
SLHC433050-3	HPLC Column,C4,3µm,300Å,3.0x50mm	1
SLHC4330100-3	HPLC Column,C4,3µm,300Å,3.0x100mm	1
SLHC4330150-3	HPLC Column,C4,3µm,300Å,3.0x150mm	1
SLHC434050-3	HPLC Column,C4,3µm,300Å,4.0x50mm	1
SLHC4340100-3	HPLC Column,C4,3µm,300Å,4.0x100mm	1
SLHC4339150-3	HPLC Column,C4,3µm,300Å,3.9x150mm	1
SLHC4340150-3	HPLC Column,C4,3µm,300Å,4.0x150mm	1
SLHC434650-3	HPLC Column,C4,3µm,300Å,4.6x50mm	1
SLHC4346100-3	HPLC Column,C4,3µm,300Å,4.6x100mm	1
SLHC4346150-3	HPLC Column,C4,3µm,300Å,4.6x150mm	1
SLHC452130	HPLC Column,C4,5µm,120Å,2.1x30mm	1
SLHC452133	HPLC Column,C4,5µm,120Å,2.1x33mm	1
SLHC452150	HPLC Column,C4,5µm,120Å,2.1x50mm	1
SLHC452175	HPLC Column,C4,5µm,120Å,2.1x75mm	1
SLHC4521100	HPLC Column,C4,5µm,120Å,2.1x100mm	1
SLHC4521125	HPLC Column,C4,5µm,120Å,2.1x125mm	1
SLHC4521150	HPLC Column,C4,5µm,120Å,2.1x150mm	1
SLHC4521200	HPLC Column,C4,5µm,120Å,2.1x200mm	1
SLHC4521250	HPLC Column,C4,5µm,120Å,2.1x250mm	1
SLHC453030	HPLC Column,C4,5µm,120Å,3.0x30mm	1
SLHC453050	HPLC Column,C4,5µm,120Å,3.0x50mm	1
SLHC453075	HPLC Column,C4,5µm,120Å,3.0x75mm	1
SLHC4530100	HPLC Column,C4,5µm,120Å,3.0x100mm	1
SLHC4530125	HPLC Column,C4,5µm,120Å,3.0x125mm	1
SLHC4530150	HPLC Column,C4,5µm,120Å,3.0x150mm	1
SLHC4530200	HPLC Column,C4,5µm,120Å,3.0x200mm	1
SLHC4530250	HPLC Column,C4,5µm,120Å,3.0x250mm	1
SLHC454030	HPLC Column,C4,5µm,120Å,4.0x30mm	1
SLHC454050	HPLC Column,C4,5µm,120Å,4.0x50mm	1
SLHC454075	HPLC Column,C4,5µm,120Å,4.0x75mm	1
SLHC4540100	HPLC Column,C4,5µm,120Å,4.0x100mm	1
SLHC4540125	HPLC Column,C4,5µm,120Å,4.0x125mm	1
SLHC4539150	HPLC Column,C4,5µm,120Å,3.9x150mm	1

SLHC4540150	HPLC Column, C4, 5µm, 120Å, 4.0x150mm	1
SLHC4540200	HPLC Column, C4, 5µm, 120Å, 4.0x200mm	1
SLHC4539250	HPLC Column, C4, 5µm, 120Å, 3.9x250mm	1
SLHC4540250	HPLC Column, C4, 5µm, 120Å, 4.0x250mm	1
SLHC4539300	HPLC Column, C4, 5µm, 120Å, 3.9x300mm	1
SLHC4540300	HPLC Column, C4, 5µm, 120Å, 4.0x300mm	1
SLHC454630	HPLC Column, C4, 5µm, 120Å, 4.6x30mm	1
SLHC454633	HPLC Column, C4, 5µm, 120Å, 4.6x33mm	1
SLHC454650	HPLC Column, C4, 5µm, 120Å, 4.6x50mm	1
SLHC454675	HPLC Column, C4, 5µm, 120Å, 4.6x75mm	1
SLHC4546100	HPLC Column, C4, 5µm, 120Å, 4.6x100mm	1
SLHC4546125	HPLC Column, C4, 5µm, 120Å, 4.6x125mm	1
SLHC4546150	HPLC Column, C4, 5µm, 120Å, 4.6x150mm	1
SLHC4546200	HPLC Column, C4, 5µm, 120Å, 4.6x200mm	1
SLHC4546250	HPLC Column, C4, 5µm, 120Å, 4.6x250mm	1
SLHC4546300	HPLC Column, C4, 5µm, 120Å, 4.6x300mm	1
SLHC4560150	HPLC Column, C4, 5µm, 120Å, 6.0x150mm	1
SLHC4560250	HPLC Column, C4, 5µm, 120Å, 6.0x250mm	1
SLHC4565150	HPLC Column, C4, 5µm, 120Å, 6.5x150mm	1
SLHC4565250	HPLC Column, C4, 5µm, 120Å, 6.5x250mm	1
SLHC4578100	HPLC Column, C4, 5µm, 120Å, 7.8x100mm	1
SLHC4578150	HPLC Column, C4, 5µm, 120Å, 7.8x150mm	1
SLHC4578250	HPLC Column, C4, 5µm, 120Å, 7.8x250mm	1
SLHC452150-3	HPLC Column, C4, 5µm, 300Å, 2.1x50mm	1
SLHC4521100-3	HPLC Column, C4, 5µm, 300Å, 2.1x100mm	1
SLHC4521150-3	HPLC Column, C4, 5µm, 300Å, 2.1x150mm	1
SLHC453050-3	HPLC Column, C4, 5µm, 300Å, 3.0x50mm	1
SLHC4530100-3	HPLC Column, C4, 5µm, 300Å, 3.0x100mm	1
SLHC4530150-3	HPLC Column, C4, 5µm, 300Å, 3.0x150mm	1
SLHC454050-3	HPLC Column, C4, 5µm, 300Å, 4.0x50mm	1
SLHC4540100-3	HPLC Column, C4, 5µm, 300Å, 4.0x100mm	1
SLHC4539150-3	HPLC Column, C4, 5µm, 300Å, 3.9x150mm	1
SLHC4540150-3	HPLC Column, C4, 5µm, 300Å, 4.0x150mm	1
SLHC454650-3	HPLC Column, C4, 5µm, 300Å, 4.6x50mm	1
SLHC4546100-3	HPLC Column, C4, 5µm, 300Å, 4.6x100mm	1
SLHC4546150-3	HPLC Column, C4, 5µm, 300Å, 4.6x150mm	1
SLHC4546200-3	HPLC Column, C4, 5µm, 300Å, 4.6x200mm	1
SLHC4546250-3	HPLC Column, C4, 5µm, 300Å, 4.6x250mm	1

SLHC4578300-3	HPLC Column, C4, 5 $\mu$ m, 300 $\text{\AA}$ , 7.8x300mm	1
SLHC41040250	HPLC Column, C4, 10 $\mu$ m, 120 $\text{\AA}$ , 4.0x250mm	1
SLHC41039300	HPLC Column, C4, 10 $\mu$ m, 120 $\text{\AA}$ , 3.9x300mm	1
SLHC41040300	HPLC Column, C4, 10 $\mu$ m, 120 $\text{\AA}$ , 4.0x300mm	1
SLHC41046150	HPLC Column, C4, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x150mm	1
SLHC41046200	HPLC Column, C4, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x200mm	1
SLHC41046250	HPLC Column, C4, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x250mm	1
SLHC41046300	HPLC Column, C4, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x300mm	1

## 1.10 SiO<sub>2</sub> Columns

### Description

Silica columns is applied with ultra high purity (>99.999%) type B silica particles, and there is no metal contents in the column. Just like the CN column, the SiO<sub>2</sub> column can be used in the normal and reverse phase. We could get good result for the analysis of polar compounds which always leads to peak tailing.

1. Ultra high purity silica (>99.999%).
2. Smoothpak proprietary surface modification to ensure less acidic and uniform surface silanols.

### Order Information

Item No	Description	Package (pcspk)
SLHSI32130	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x30mm	1
SLHSI32133	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x33mm	1
SLHSI32150	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x50mm	1
SLHSI32175	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x75mm	1
SLHSI321100	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x100mm	1
SLHSI321125	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x125mm	1
SLHSI321150	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x150mm	1
SLHSI33030	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x30mm	1
SLHSI33050	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x50mm	1
SLHSI33075	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x75mm	1
SLHSI330100	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x100mm	1
SLHSI330125	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x125mm	1
SLHSI330150	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x150mm	1
SLHSI330200	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x200mm	1
SLHSI330250	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x250mm	1
SLHSI34030	HPLC Column, SiO <sub>2</sub> , 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x30mm	1

SLHSI34050	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.0x50mm	1
SLHSI34075	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.0x75mm	1
SLHSI340100	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.0x100mm	1
SLHSI340125	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.0x125mm	1
SLHSI339150	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 3.9x150mm	1
SLHSI340150	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.0x150mm	1
SLHSI340200	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.0x200mm	1
SLHSI339250	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 3.9x250mm	1
SLHSI340250	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.0x250mm	1
SLHSI34630	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x30mm	1
SLHSI34633	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x33mm	1
SLHSI34650	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x50mm	1
SLHSI34675	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x75mm	1
SLHSI346100	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x100mm	1
SLHSI346125	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x125mm	1
SLHSI346150	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x150mm	1
SLHSI346200	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x200mm	1
SLHSI346250	HPLC Column, SiO <sub>2</sub> , 3μm, 120Å, 4.6x250mm	1
SLHSI52130	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 2.1x30mm	1
SLHSI52133	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 2.1x33mm	1
SLHSI52150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 2.1x50mm	1
SLHSI52175	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 2.1x75mm	1
SLHSI521100	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 2.1x100mm	1
SLHSI521125	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 2.1x125mm	1
SLHSI521150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 2.1x150mm	1
SLHSI53030	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x30mm	1
SLHSI53050	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x50mm	1
SLHSI53075	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x75mm	1
SLHSI530100	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x100mm	1
SLHSI530125	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x125mm	1
SLHSI530150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x150mm	1
SLHSI530200	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x200mm	1
SLHSI530250	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.0x250mm	1
SLHSI54030	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x30mm	1
SLHSI54050	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x50mm	1
SLHSI54075	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x75mm	1
SLHSI540100	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x100mm	1
SLHSI540125	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x125mm	1

SLHSI539150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.9x150mm	1
SLHSI540150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x150mm	1
SLHSI540200	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x200mm	1
SLHSI539250	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.9x250mm	1
SLHSI540250	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x250mm	1
SLHSI539300	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 3.9x300mm	1
SLHSI540300	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.0x300mm	1
SLHSI54630	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x30mm	1
SLHSI54633	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x33mm	1
SLHSI54650	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x50mm	1
SLHSI54675	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x75mm	1
SLHSI546100	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x100mm	1
SLHSI546125	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x125mm	1
SLHSI546150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x150mm	1
SLHSI546200	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x200mm	1
SLHSI546250	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x250mm	1
SLHSI546300	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 4.6x300mm	1
SLHSI560150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 6.0x150mm	1
SLHSI560250	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 6.0x250mm	1
SLHSI565150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 6.5x150mm	1
SLHSI565250	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 6.5x250mm	1
SLHSI578100	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 7.8x100mm	1
SLHSI578150	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 7.8x150mm	1
SLHSI578250	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 7.8x250mm	1
SLHSI578300	HPLC Column, SiO <sub>2</sub> , 5μm, 120Å, 7.8x300mm	1
SLHSI1039300	HPLC Column, SiO <sub>2</sub> , 10μm, 120Å, 3.9x300mm	1
SLHSI1040300	HPLC Column, SiO <sub>2</sub> , 10μm, 120Å, 4.0x300mm	1
SLHSI1046150	HPLC Column, SiO <sub>2</sub> , 10μm, 120Å, 4.6x150mm	1
SLHSI1046200	HPLC Column, SiO <sub>2</sub> , 10μm, 120Å, 4.6x200mm	1
SLHSI1046250	HPLC Column, SiO <sub>2</sub> , 10μm, 120Å, 4.6x250mm	1
SLHSI1046300	HPLC Column, SiO <sub>2</sub> , 10μm, 120Å, 4.6x300mm	1

## 1.11 NH<sub>2</sub> Columns

### Description

NH<sub>2</sub> columns are used in normal phase LC analysis mostly.

1. Propyl-amino silane phase bonded to Silica.

2. Used for normal phase and weak anion-exchange, and for reversed-phase HPLC of polar compounds.
3. for applications in aggressive normal phase mode with aqueous eluent
4. Vitamins A and D are separated in the normal-phase mode
5. Carbohydrates and monosaccharide can be separated in the reversed-phase mode on NH<sub>2</sub>, but not suit for the separation of compounds and sugars that contain aldehyde, carbonyl
6. In the low pH buffer solution, can separate some negatively charged molecules for weak anion exchange mechanism.

### Order Information

Item No	Description	Package (pcs/pk)
SLHNNH32130	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 2.1x30mm	1
SLHNNH32133	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 2.1x33mm	1
SLHNNH32150	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 2.1x50mm	1
SLHNNH32175	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 2.1x75mm	1
SLHNNH321100	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 2.1x100mm	1
SLHNNH321125	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 2.1x125mm	1
SLHNNH321150	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 2.1x150mm	1
SLHNNH33030	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x30mm	1
SLHNNH33050	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x50mm	1
SLHNNH33075	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x75mm	1
SLHNNH330100	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x100mm	1
SLHNNH330125	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x125mm	1
SLHNNH330150	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x150mm	1
SLHNNH330200	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x200mm	1
SLHNNH330250	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.0x250mm	1
SLHNNH34030	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x30mm	1
SLHNNH34050	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x50mm	1
SLHNNH34075	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x75mm	1
SLHNNH340100	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x100mm	1
SLHNNH340125	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x125mm	1
SLHNNH339150	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.9x150mm	1
SLHNNH340150	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x150mm	1
SLHNNH340200	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x200mm	1
SLHNNH339250	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 3.9x250mm	1
SLHNNH340250	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.0x250mm	1
SLHNNH34630	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.6x30mm	1
SLHNNH34633	HPLC Column, NH <sub>2</sub> , 3μm, 120Å, 4.6x33mm	1



SLHNNH34650	HPLC Column,NH <sub>2</sub> ,3μm,120Å,4.6x50mm	1
SLHNNH34675	HPLC Column,NH <sub>2</sub> ,3μm,120Å,4.6x75mm	1
SLHNNH346100	HPLC Column,NH <sub>2</sub> ,3μm,120Å,4.6x100mm	1
SLHNNH346125	HPLC Column,NH <sub>2</sub> ,3μm,120Å,4.6x125mm	1
SLHNNH346150	HPLC Column,NH <sub>2</sub> ,3μm,120Å,4.6x150mm	1
SLHNNH346200	HPLC Column,NH <sub>2</sub> ,3μm,120Å,4.6x200mm	1
SLHNNH346250	HPLC Column,NH <sub>2</sub> ,3μm,120Å,4.6x250mm	1
SLHNNH52130	HPLC Column,NH <sub>2</sub> ,5μm,120Å,2.1x30mm	1
SLHNNH52133	HPLC Column,NH <sub>2</sub> ,5μm,120Å,2.1x33mm	1
SLHNNH52150	HPLC Column,NH <sub>2</sub> ,5μm,120Å,2.1x50mm	1
SLHNNH52175	HPLC Column,NH <sub>2</sub> ,5μm,120Å,2.1x75mm	1
SLHNNH521100	HPLC Column,NH <sub>2</sub> ,5μm,120Å,2.1x100mm	1
SLHNNH521125	HPLC Column,NH <sub>2</sub> ,5μm,120Å,2.1x125mm	1
SLHNNH521150	HPLC Column,NH <sub>2</sub> ,5μm,120Å,2.1x150mm	1
SLHNNH53030	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x30mm	1
SLHNNH53050	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x50mm	1
SLHNNH53075	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x75mm	1
SLHNNH530100	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x100mm	1
SLHNNH530125	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x125mm	1
SLHNNH530150	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x150mm	1
SLHNNH530200	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x200mm	1
SLHNNH530250	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.0x250mm	1
SLHNNH54030	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x30mm	1
SLHNNH54050	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x50mm	1
SLHNNH54075	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x75mm	1
SLHNNH540100	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x100mm	1
SLHNNH540125	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x125mm	1
SLHNNH539150	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.9x150mm	1
SLHNNH540150	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x150mm	1
SLHNNH540200	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x200mm	1
SLHNNH539250	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.9x250mm	1
SLHNNH540250	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x250mm	1
SLHNNH539300	HPLC Column,NH <sub>2</sub> ,5μm,120Å,3.9x300mm	1
SLHNNH540300	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.0x300mm	1
SLHNNH54630	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.6x30mm	1
SLHNNH54633	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.6x33mm	1
SLHNNH54650	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.6x50mm	1
SLHNNH54675	HPLC Column,NH <sub>2</sub> ,5μm,120Å,4.6x75mm	1

SLHNNH546100	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 4.6x100mm	1
SLHNNH546125	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 4.6x125mm	1
SLHNNH546150	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 4.6x150mm	1
SLHNNH546200	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 4.6x200mm	1
SLHNNH546250	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 4.6x250mm	1
SLHNNH546300	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 4.6x300mm	1
SLHNNH560150	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 6.0x150mm	1
SLHNNH560250	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 6.0x250mm	1
SLHNNH565150	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 6.5x150mm	1
SLHNNH565250	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 6.5x250mm	1
SLHNNH578100	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 7.8x100mm	1
SLHNNH578150	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 7.8x150mm	1
SLHNNH578250	HPLC Column, NH <sub>2</sub> , 5 μm, 120 Å, 7.8x250mm	1
SLHNNH1039300	HPLC Column, NH <sub>2</sub> , 10 μm, 120 Å, 3.9x300mm	1
SLHNNH1040300	HPLC Column, NH <sub>2</sub> , 10 μm, 120 Å, 4.0x300mm	1
SLHNNH1046150	HPLC Column, NH <sub>2</sub> , 10 μm, 120 Å, 4.6x150mm	1
SLHNNH1046200	HPLC Column, NH <sub>2</sub> , 10 μm, 120 Å, 4.6x200mm	1
SLHNNH1046250	HPLC Column, NH <sub>2</sub> , 10 μm, 120 Å, 4.6x250mm	1
SLHNNH1046300	HPLC Column, NH <sub>2</sub> , 10 μm, 120 Å, 4.6x300mm	1

## 1.12 CN Columns

### Description

CN columns are based on our proprietary bonding and end-capping techniques to ensure excellent sharp peaks and reproducibility for the analysis of basic compounds. Due to stable bonding chemistry and excellent surface coverage, the columns exhibit exceptional stability at low pH compared to other cyano phases. CN columns offer unique selectivity due to dipole-dipole and dipole-induced dipole interactions, which are very useful for separation of a wide range of pharmaceuticals and peptides. They show excellent peak shapes for basic compounds and are a good first choice for compounds typically considered difficult to analyze.

1. Low hydrophobicity, for rapid elution of hydrophobic molecules
2. Can be used in both Reverse Phase and Normal Phase analysis
3. Unique selectivity for polar compounds
4. Retention and separation of strongly basic analytes, including quaternary ammonium salts, with excellent peak shapes
5. Compatibility with highly aqueous mobile phases
6. Exceptional batch-to-batch and column-to-column reproducibility.
7. Exceptional stability and column lifetime, from pH 1.5 to 9
8. Available in dimensions from analytical to preparative for all sample sizes

## Order Information

Item No	Description	Package (pcs/pk)
SLHCN32130	HPLC Column,CN,3µm,120Å,2.1x30mm	1
SLHCN32133	HPLC Column,CN,3µm,120Å,2.1x33mm	1
SLHCN32150	HPLC Column,CN,3µm,120Å,2.1x50mm	1
SLHCN32175	HPLC Column,CN,3µm,120Å,2.1x75mm	1
SLHCN321100	HPLC Column,CN,3µm,120Å,2.1x100mm	1
SLHCN321125	HPLC Column,CN,3µm,120Å,2.1x125mm	1
SLHCN321150	HPLC Column,CN,3µm,120Å,2.1x150mm	1
SLHCN321200	HPLC Column,CN,3µm,120Å,2.1x200mm	1
SLHCN321250	HPLC Column,CN,3µm,120Å,2.1x250mm	1
SLHCN33030	HPLC Column,CN,3µm,120Å,3.0x30mm	1
SLHCN33050	HPLC Column,CN,3µm,120Å,3.0x50mm	1
SLHCN33075	HPLC Column,CN,3µm,120Å,3.0x75mm	1
SLHCN330100	HPLC Column,CN,3µm,120Å,3.0x100mm	1
SLHCN330125	HPLC Column,CN,3µm,120Å,3.0x125mm	1
SLHCN330150	HPLC Column,CN,3µm,120Å,3.0x150mm	1
SLHCN330200	HPLC Column,CN,3µm,120Å,3.0x200mm	1
SLHCN330250	HPLC Column,CN,3µm,120Å,3.0x250mm	1
SLHCN34030	HPLC Column,CN,3µm,120Å,4.0x30mm	1
SLHCN34050	HPLC Column,CN,3µm,120Å,4.0x50mm	1
SLHCN34075	HPLC Column,CN,3µm,120Å,4.0x75mm	1
SLHCN340100	HPLC Column,CN,3µm,120Å,4.0x100mm	1
SLHCN340125	HPLC Column,CN,3µm,120Å,4.0x125mm	1
SLHCN339150	HPLC Column,CN,3µm,120Å,3.9x150mm	1
SLHCN340150	HPLC Column,CN,3µm,120Å,4.0x150mm	1
SLHCN340200	HPLC Column,CN,3µm,120Å,4.0x200mm	1
SLHCN339250	HPLC Column,CN,3µm,120Å,3.9x250mm	1
SLHCN340250	HPLC Column,CN,3µm,120Å,4.0x250mm	1
SLHCN34630	HPLC Column,CN,3µm,120Å,4.6x30mm	1
SLHCN34633	HPLC Column,CN,3µm,120Å,4.6x33mm	1
SLHCN34650	HPLC Column,CN,3µm,120Å,4.6x50mm	1
SLHCN34675	HPLC Column,CN,3µm,120Å,4.6x75mm	1
SLHCN346100	HPLC Column,CN,3µm,120Å,4.6x100mm	1
SLHCN346125	HPLC Column,CN,3µm,120Å,4.6x125mm	1
SLHCN346150	HPLC Column,CN,3µm,120Å,4.6x150mm	1

SLHCN346200	HPLC Column,CN,3µm,120Å,4.6x200mm	1
SLHCN346250	HPLC Column,CN,3µm,120Å,4.6x250mm	1
SLHCN52130	HPLC Column,CN,5µm,120Å,2.1x30mm	1
SLHCN52133	HPLC Column,CN,5µm,120Å,2.1x33mm	1
SLHCN52150	HPLC Column,CN,5µm,120Å,2.1x50mm	1
SLHCN52175	HPLC Column,CN,5µm,120Å,2.1x75mm	1
SLHCN521100	HPLC Column,CN,5µm,120Å,2.1x100mm	1
SLHCN521125	HPLC Column,CN,5µm,120Å,2.1x125mm	1
SLHCN521150	HPLC Column,CN,5µm,120Å,2.1x150mm	1
SLHCN521200	HPLC Column,CN,5µm,120Å,2.1x200mm	1
SLHCN521250	HPLC Column,CN,5µm,120Å,2.1x250mm	1
SLHCN53030	HPLC Column,CN,5µm,120Å,3.0x30mm	1
SLHCN53050	HPLC Column,CN,5µm,120Å,3.0x50mm	1
SLHCN53075	HPLC Column,CN,5µm,120Å,3.0x75mm	1
SLHCN530100	HPLC Column,CN,5µm,120Å,3.0x100mm	1
SLHCN530125	HPLC Column,CN,5µm,120Å,3.0x125mm	1
SLHCN530150	HPLC Column,CN,5µm,120Å,3.0x150mm	1
SLHCN530200	HPLC Column,CN,5µm,120Å,3.0x200mm	1
SLHCN530250	HPLC Column,CN,5µm,120Å,3.0x250mm	1
SLHCN54030	HPLC Column,CN,5µm,120Å,4.0x30mm	1
SLHCN54050	HPLC Column,CN,5µm,120Å,4.0x50mm	1
SLHCN54075	HPLC Column,CN,5µm,120Å,4.0x75mm	1
SLHCN540100	HPLC Column,CN,5µm,120Å,4.0x100mm	1
SLHCN540125	HPLC Column,CN,5µm,120Å,4.0x125mm	1
SLHCN539150	HPLC Column,CN,5µm,120Å,3.9x150mm	1
SLHCN540150	HPLC Column,CN,5µm,120Å,4.0x150mm	1
SLHCN540200	HPLC Column,CN,5µm,120Å,4.0x200mm	1
SLHCN539250	HPLC Column,CN,5µm,120Å,3.9x250mm	1
SLHCN540250	HPLC Column,CN,5µm,120Å,4.0x250mm	1
SLHCN539300	HPLC Column,CN,5µm,120Å,3.9x300mm	1
SLHCN540300	HPLC Column,CN,5µm,120Å,4.0x300mm	1
SLHCN54630	HPLC Column,CN,5µm,120Å,4.6x30mm	1
SLHCN54633	HPLC Column,CN,5µm,120Å,4.6x33mm	1
SLHCN54650	HPLC Column,CN,5µm,120Å,4.6x50mm	1
SLHCN54675	HPLC Column,CN,5µm,120Å,4.6x75mm	1
SLHCN546100	HPLC Column,CN,5µm,120Å,4.6x100mm	1
SLHCN546125	HPLC Column,CN,5µm,120Å,4.6x125mm	1
SLHCN546150	HPLC Column,CN,5µm,120Å,4.6x150mm	1

SLHCN546200	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHCN546250	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHCN546300	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1
SLHCN560150	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,6.0x150mm	1
SLHCN560250	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,6.0x250mm	1
SLHCN565150	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,6.5x150mm	1
SLHCN565250	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,6.5x250mm	1
SLHCN578100	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,7.8x100mm	1
SLHCN578150	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,7.8x150mm	1
SLHCN578250	HPLC Column,CN,5 $\mu$ m,120 $\text{\AA}$ ,7.8x250mm	1
SLHCN1039300	HPLC Column,CN,10 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHCN1040300	HPLC Column,CN,10 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHCN1046150	HPLC Column,CN,10 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHCN1046200	HPLC Column,CN,10 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHCN1046250	HPLC Column,CN,10 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHCN1046300	HPLC Column,CN,10 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1

## 1.13 Phenyl Columns

### Description

Phenyl phase is less retentive than traditional C18 and C8 phases, but more retentive than standard cyano phase. Due to their ability to participate in  $\pi$ -interactions. Phenyl columns may actually more retentive than C18 or C8 columns towards certain polar aromatic compounds, depending on running conditions. The selectivity for highly polar aromatics, which are poorly retained on alkyl-bonded phases, combined with the reduced retentivity towards non-polar compounds, makes Phenyl an excellent choice for the analysis of complex mixtures of polar and non-polar analytes.

1. High surface coverage and exhaustive double end-capping.
2. Excellent for aromatic, polar compounds and difficult pharmaceuticals.
3. Different selectivity to C18-B, C8-A and CN.
4. Exceptional batch-to-batch and column-to-column reproducibility.
5. Available in dimensions from analytical to preparative for all sample sizes.

### Order Information

Item No	Description	Package (pcs/pk)
SLHPH32130	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHPH32133	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHPH32150	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1

SLHPH32175	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHPH321100	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHPH321125	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHPH321150	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHPH321200	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHPH321250	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHPH33030	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHPH33050	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHPH33075	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHPH330100	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHPH330125	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHPH330150	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHPH330200	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHPH330250	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHPH34030	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHPH34050	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHPH34075	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHPH340100	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHPH340125	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHPH339150	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHPH340150	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHPH340200	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHPH339250	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHPH340250	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHPH34630	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHPH34633	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHPH34650	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHPH34675	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHPH346100	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHPH346125	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHPH346150	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPH346200	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHPH346250	HPLC Column,Phenyl,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPH52130	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHPH52133	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHPH52150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHPH52175	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHPH521100	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1

SLHPH521125	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHPH521150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHPH521200	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHPH521250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHPH53030	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHPH53050	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHPH53075	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHPH530100	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHPH530125	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHPH530150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHPH530200	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHPH530250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHPH54030	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHPH54050	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHPH54075	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHPH540100	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHPH540125	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHPH539150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHPH540150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHPH540200	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHPH539250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHPH540250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHPH539300	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHPH540300	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHPH54630	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHPH54633	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHPH54650	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHPH54675	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHPH546100	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHPH546125	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHPH546150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPH546200	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHPH546250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPH546300	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1
SLHPH560150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,6.0x150mm	1
SLHPH560250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,6.0x250mm	1
SLHPH565150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,6.5x150mm	1
SLHPH565250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,6.5x250mm	1



SLHPH578100	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,7.8x100mm	1
SLHPH578150	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,7.8x150mm	1
SLHPH578250	HPLC Column,Phenyl,5 $\mu$ m,120 $\text{\AA}$ ,7.8x250mm	1
SLHPH546250-3	HPLC Column,Phenyl,5 $\mu$ m,300 $\text{\AA}$ ,4.6x250mm	1
SLHPH1039300	HPLC Column,Phenyl,10 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHPH1040300	HPLC Column,Phenyl,10 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHPH1046150	HPLC Column,Phenyl,10 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPH1046200	HPLC Column,Phenyl,10 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHPH1046250	HPLC Column,Phenyl,10 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPH1046300	HPLC Column,Phenyl,10 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1

## 1.14 Phenyl-Ether Columns

### Description

1. The existence of ether bond strengthened the  $\pi$ - $\pi$  reaction with conjugated compounds
2. Suitable for the separation of polarity and aromatic compounds
3. A phenyl column that can match 100% water mobile phase to use

### Order Information

Item No	Description	Package (pcs/pk)
SLHPE546150	HPLC Column,Phenyl-Ether,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPE546250	HPLC Column,Phenyl-Ether,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1

## 1.15 Polar RP Columns

### Description

Traditional polar embedded reversed phase column use amino acid amide group bonding on the surface of the silica, which may cause residual amino. The residual amino presents alkaline characteristics, when analysis the acid (such as organic acid), will cause the peak tailing. Hawach adopts unique bonding process, solves the problem of residue amino, and at the same time adopts double end-capped technology to get excellent symmetrical peak shape.

1. Different selectivity from traditional reverse phase such as C18 and C8, especially for the analysis of polar compounds
2. Exhibit at 100% water contents in the mobile phase, even better than the C18-Aqueous
3. Excellent peak shape for the analysis of polar and basic compounds, particularly at mid pH, due to the "shield" effect of polar linkage to silanol activity by forming hydrogen bonding

### Order Information

Item No	Description	Package (pcs/pk)
SLHPRP32130	HPLC Column,Polar-RP,3µm,120Å,2.1x30mm	1
SLHPRP32133	HPLC Column,Polar-RP,3µm,120Å,2.1x33mm	1
SLHPRP32150	HPLC Column,Polar-RP,3µm,120Å,2.1x50mm	1
SLHPRP32175	HPLC Column,Polar-RP,3µm,120Å,2.1x75mm	1
SLHPRP321100	HPLC Column,Polar-RP,3µm,120Å,2.1x100mm	1
SLHPRP321125	HPLC Column,Polar-RP,3µm,120Å,2.1x125mm	1
SLHPRP321150	HPLC Column,Polar-RP,3µm,120Å,2.1x150mm	1
SLHPRP321200	HPLC Column,Polar-RP,3µm,120Å,2.1x200mm	1
SLHPRP321250	HPLC Column,Polar-RP,3µm,120Å,2.1x250mm	1
SLHPRP33030	HPLC Column,Polar-RP,3µm,120Å,3.0x30mm	1
SLHPRP33050	HPLC Column,Polar-RP,3µm,120Å,3.0x50mm	1
SLHPRP33075	HPLC Column,Polar-RP,3µm,120Å,3.0x75mm	1
SLHPRP330100	HPLC Column,Polar-RP,3µm,120Å,3.0x100mm	1
SLHPRP330125	HPLC Column,Polar-RP,3µm,120Å,3.0x125mm	1
SLHPRP330150	HPLC Column,Polar-RP,3µm,120Å,3.0x150mm	1
SLHPRP330200	HPLC Column,Polar-RP,3µm,120Å,3.0x200mm	1
SLHPRP330250	HPLC Column,Polar-RP,3µm,120Å,3.0x250mm	1
SLHPRP34030	HPLC Column,Polar-RP,3µm,120Å,4.0x30mm	1
SLHPRP34050	HPLC Column,Polar-RP,3µm,120Å,4.0x50mm	1
SLHPRP34075	HPLC Column,Polar-RP,3µm,120Å,4.0x75mm	1
SLHPRP340100	HPLC Column,Polar-RP,3µm,120Å,4.0x100mm	1
SLHPRP340125	HPLC Column,Polar-RP,3µm,120Å,4.0x125mm	1
SLHPRP339150	HPLC Column,Polar-RP,3µm,120Å,3.9x150mm	1
SLHPRP340150	HPLC Column,Polar-RP,3µm,120Å,4.0x150mm	1
SLHPRP340200	HPLC Column,Polar-RP,3µm,120Å,4.0x200mm	1
SLHPRP339250	HPLC Column,Polar-RP,3µm,120Å,3.9x250mm	1
SLHPRP340250	HPLC Column,Polar-RP,3µm,120Å,4.0x250mm	1
SLHPRP34630	HPLC Column,Polar-RP,3µm,120Å,4.6x30mm	1
SLHPRP34633	HPLC Column,Polar-RP,3µm,120Å,4.6x33mm	1
SLHPRP34650	HPLC Column,Polar-RP,3µm,120Å,4.6x50mm	1
SLHPRP34675	HPLC Column,Polar-RP,3µm,120Å,4.6x75mm	1
SLHPRP346100	HPLC Column,Polar-RP,3µm,120Å,4.6x100mm	1
SLHPRP346125	HPLC Column,Polar-RP,3µm,120Å,4.6x125mm	1
SLHPRP346150	HPLC Column,Polar-RP,3µm,120Å,4.6x150mm	1
SLHPRP346200	HPLC Column,Polar-RP,3µm,120Å,4.6x200mm	1

SLHPRP346250	HPLC Column,Polar-RP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPRP52130	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHPRP52133	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHPRP52150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHPRP52175	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHPRP521100	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHPRP521125	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHPRP521150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHPRP521200	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHPRP521250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHPRP53030	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHPRP53050	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHPRP53075	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHPRP530100	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHPRP530125	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHPRP530150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHPRP530200	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHPRP530250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHPRP54030	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHPRP54050	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHPRP54075	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHPRP540100	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHPRP540125	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHPRP539150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHPRP540150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHPRP540200	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHPRP539250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHPRP540250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHPRP539300	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHPRP540300	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHPRP54630	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHPRP54633	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHPRP54650	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHPRP54675	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHPRP546100	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHPRP546125	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHPRP546150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPRP546200	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1

SLHPRP546250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPRP546300	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1
SLHPRP560150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,6.0x150mm	1
SLHPRP560250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,6.0x250mm	1
SLHPRP565150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,6.5x150mm	1
SLHPRP565250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,6.5x250mm	1
SLHPRP578100	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,7.8x100mm	1
SLHPRP578150	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,7.8x150mm	1
SLHPRP578250	HPLC Column,Polar-RP,5 $\mu$ m,120 $\text{\AA}$ ,7.8x250mm	1

## 1.16 SCX Columns

### Description

SCX HPLC columns are applied with a covalently bonded aromatic sulfonic acid moiety. It is usually used to separate basic or soluble compounds. Typical applications are separation of organic bases, such as basic amino acid, phenylamine, salts for pharmaceutical purposes, inorganic cation ions and nucleotide.

- Organic modifiers such as acetonitrile and methanol may be used with SCX columns, within organic/buffer solubility constraints.
- Retention can be controlled by varying pH, ionic strength and organic modifier content.
- Stable pH range from 2.0 to 7.0.

### Order Information

Item No	Description	Package (pcs/pk)
SLHSCX321150	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHSCX330250	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHSCX340250	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHSCX34650	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHSCX346100	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHSCX346150	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHSCX346200	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHSCX346250	HPLC Column,SCX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHSCX530250	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHSCX540250	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHSCX54650	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHSCX546100	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1

SLHSCX546150	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHSCX546200	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHSCX546250	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHSCX560250	HPLC Column,SCX,5 $\mu$ m,120 $\text{\AA}$ ,6.0x250mm	1
SLHSCX546250-3	HPLC Column,SCX,5 $\mu$ m,300 $\text{\AA}$ ,4.6x250mm	1

## 1.17 SAX Columns

### Description

SAX HPLC columns are applied with an ammonium- functional silane, based on ultra high purity, and are suitable for efficient anion exchange HPLC method. Typical applications are separation of several kinds of organic acids, such as aromatic or aliphatic carboxylic acid and sulfonic acid. Specific applications include pesticide, herbicide, pharmacy, biological samples.

- Organic modifiers such as acetonitrile and methanol may be used with SAX columns, within organic/buffer solubility constraints.
- Retention can be controlled by varying pH, ionic strength and organic modifier content.
- Stable pH range from 2.0 to 7.0.

### Order Information

Item No	Description	Package (pcs/pk)
SLHSAX330250	HPLC Column,SAX,3 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHSAX340250	HPLC Column,SAX,3 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHSAX34650	HPLC Column,SAX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHSAX346100	HPLC Column,SAX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHSAX346150	HPLC Column,SAX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHSAX346200	HPLC Column,SAX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHSAX346250	HPLC Column,SAX,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHSAX530250	HPLC Column,SAX,5 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHSAX540250	HPLC Column,SAX,5 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHSAX54650	HPLC Column,SAX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHSAX546100	HPLC Column,SAX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHSAX546150	HPLC Column,SAX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHSAX546200	HPLC Column,SAX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHSAX546250	HPLC Column,SAX,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHSAX1046250	HPLC Column,SAX,10 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1

## 1.18 Diol Columns

### Description

For normal-phase chromatography, our product line offers new Diol bonded silica packing materials. Diol may also be used as a polar sorbent in normal phase. Like bare silica, Diol has the ability to form hydrogen bonds and has the capacity to separate structure isomers. Since most of its surface is covered with organic functions, the Diol absorbs less water, which leads to a more reproducible activity. It is also the sorbent of choice when working in normal phase in the presence of water. It has a different selectivity than bare silica gel, and slight modification in the composition of solvent mixture may be necessary to obtain a similar retention.

The Diol column is more stable than the traditional normal phase columns, such as NH<sub>2</sub>, SiO<sub>2</sub>. Compared with NH<sub>2</sub>/SiO<sub>2</sub> column, the Diol column is not sensitive with water. The Diol column could also be used in reverse phase analysis.

- More stable than the traditional normal phase columns, such as Silica, Amine.
- Could be used in reverse phase analysis.
- Similar polarity to Amino.
- Good selectivity without excessive retention.
- Improved peak shape versus bare silica.

### Order Information

Item No	Description	Package (pcs/pk)
SLHDI32130	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x30mm	1
SLHDI32133	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x33mm	1
SLHDI32150	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x50mm	1
SLHDI32175	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x75mm	1
SLHDI321100	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x100mm	1
SLHDI321125	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x125mm	1
SLHDI321150	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 2.1x150mm	1
SLHDI33030	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x30mm	1
SLHDI33050	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x50mm	1
SLHDI33075	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x75mm	1
SLHDI330100	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x100mm	1
SLHDI330125	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x125mm	1
SLHDI330150	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x150mm	1
SLHDI330200	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x200mm	1
SLHDI330250	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.0x250mm	1
SLHDI34030	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x30mm	1
SLHDI34050	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x50mm	1
SLHDI34075	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x75mm	1

SLHDI340100	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x100mm	1
SLHDI340125	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x125mm	1
SLHDI339150	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.9x150mm	1
SLHDI340150	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x150mm	1
SLHDI340200	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x200mm	1
SLHDI339250	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 3.9x250mm	1
SLHDI340250	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.0x250mm	1
SLHDI34630	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x30mm	1
SLHDI34633	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x33mm	1
SLHDI34650	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x50mm	1
SLHDI34675	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x75mm	1
SLHDI346100	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x100mm	1
SLHDI346125	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x125mm	1
SLHDI346150	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x150mm	1
SLHDI346200	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x200mm	1
SLHDI346250	HPLC Column, Diol, 3 $\mu$ m, 120 $\text{\AA}$ , 4.6x250mm	1
SLHDI52130	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 2.1x30mm	1
SLHDI52133	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 2.1x33mm	1
SLHDI52150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 2.1x50mm	1
SLHDI52175	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 2.1x75mm	1
SLHDI521100	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 2.1x100mm	1
SLHDI521125	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 2.1x125mm	1
SLHDI521150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 2.1x150mm	1
SLHDI53030	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x30mm	1
SLHDI53050	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x50mm	1
SLHDI53075	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x75mm	1
SLHDI530100	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x100mm	1
SLHDI530125	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x125mm	1
SLHDI530150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x150mm	1
SLHDI530200	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x200mm	1
SLHDI530250	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.0x250mm	1
SLHDI54030	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x30mm	1
SLHDI54050	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x50mm	1
SLHDI54075	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x75mm	1
SLHDI540100	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x100mm	1
SLHDI540125	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x125mm	1
SLHDI539150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.9x150mm	1
SLHDI540150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x150mm	1



SLHDI540200	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x200mm	1
SLHDI539250	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.9x250mm	1
SLHDI540250	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x250mm	1
SLHDI539300	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 3.9x300mm	1
SLHDI540300	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.0x300mm	1
SLHDI54630	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x30mm	1
SLHDI54633	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x33mm	1
SLHDI54650	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x50mm	1
SLHDI54675	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x75mm	1
SLHDI546100	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x100mm	1
SLHDI546125	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x125mm	1
SLHDI546150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x150mm	1
SLHDI546200	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x200mm	1
SLHDI546250	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x250mm	1
SLHDI546300	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x300mm	1
SLHDI560150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 6.0x150mm	1
SLHDI560250	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 6.0x250mm	1
SLHDI565150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 6.5x150mm	1
SLHDI565250	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 6.5x250mm	1
SLHDI578100	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 7.8x100mm	1
SLHDI578150	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 7.8x150mm	1
SLHDI578250	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 7.8x250mm	1
SLHDI578300	HPLC Column, Diol, 5 $\mu$ m, 120 $\text{\AA}$ , 7.8x300mm	1
SLHDI1039300	HPLC Column, Diol, 10 $\mu$ m, 120 $\text{\AA}$ , 3.9x300mm	1
SLHDI1040300	HPLC Column, Diol, 10 $\mu$ m, 120 $\text{\AA}$ , 4.0x300mm	1
SLHDI1046150	HPLC Column, Diol, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x150mm	1
SLHDI1046200	HPLC Column, Diol, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x200mm	1
SLHDI1046250	HPLC Column, Diol, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x250mm	1
SLHDI1046300	HPLC Column, Diol, 10 $\mu$ m, 120 $\text{\AA}$ , 4.6x300mm	1

## 1.19 C30 Columns

### Description

Carotenoids is a broad class of natural products, so far, over 600 kinds of carotenoids has been found, including different length of carbon chain compounds such as C40, C50 and C30 etc. It is well known as many biological functions, including cancer prevention and treatment function.

Compared to classical C18 stationary phases, C30 is much more hydrophobic and retainable. Even when pure organic eluent is applied, many sample solutes, for example carotenoids, are able to retain. C30 is designed

for the separation of geometric isomer recognition, polar carotenes, polar and nonpolar xanthophylls, steroids, retinols and fat- soluble vitamins (A, D, K and E).

- Polymeric C30 alkyl chains
- Very lipophilic
- Exceptional selectivity pattern for geometric isomers

## Order Information

Item No	Description	Package (pcs/pk)
SLHC3032130	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHC3032133	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHC3032150	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHC3032175	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHC30321100	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHC30321125	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHC30321150	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHC30321200	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHC30321250	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHC3033030	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHC3033050	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHC3033075	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHC30330100	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHC30330125	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHC30330150	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHC30330200	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHC30330250	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHC3034030	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHC3034050	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHC3034075	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHC30340100	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHC30340125	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHC30339150	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHC30340150	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHC30340200	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHC30339250	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHC30340250	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHC3034630	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHC3034633	HPLC Column,C30,3 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1

SLHC3034650	HPLC Column,C30,3µm,120Å,4.6x50mm	1
SLHC3034675	HPLC Column,C30,3µm,120Å,4.6x75mm	1
SLHC30346100	HPLC Column,C30,3µm,120Å,4.6x100mm	1
SLHC30346125	HPLC Column,C30,3µm,120Å,4.6x125mm	1
SLHC30346150	HPLC Column,C30,3µm,120Å,4.6x150mm	1
SLHC30346200	HPLC Column,C30,3µm,120Å,4.6x200mm	1
SLHC30346250	HPLC Column,C30,3µm,120Å,4.6x250mm	1
SLHC3052130	HPLC Column,C30,5µm,120Å,2.1x30mm	1
SLHC3052133	HPLC Column,C30,5µm,120Å,2.1x33mm	1
SLHC3052150	HPLC Column,C30,5µm,120Å,2.1x50mm	1
SLHC3052175	HPLC Column,C30,5µm,120Å,2.1x75mm	1
SLHC30521100	HPLC Column,C30,5µm,120Å,2.1x100mm	1
SLHC30521125	HPLC Column,C30,5µm,120Å,2.1x125mm	1
SLHC30521150	HPLC Column,C30,5µm,120Å,2.1x150mm	1
SLHC30521200	HPLC Column,C30,5µm,120Å,2.1x200mm	1
SLHC30521250	HPLC Column,C30,5µm,120Å,2.1x250mm	1
SLHC3053030	HPLC Column,C30,5µm,120Å,3.0x30mm	1
SLHC3053050	HPLC Column,C30,5µm,120Å,3.0x50mm	1
SLHC3053075	HPLC Column,C30,5µm,120Å,3.0x75mm	1
SLHC30530100	HPLC Column,C30,5µm,120Å,3.0x100mm	1
SLHC30530125	HPLC Column,C30,5µm,120Å,3.0x125mm	1
SLHC30530150	HPLC Column,C30,5µm,120Å,3.0x150mm	1
SLHC30530200	HPLC Column,C30,5µm,120Å,3.0x200mm	1
SLHC30530250	HPLC Column,C30,5µm,120Å,3.0x250mm	1
SLHC3054030	HPLC Column,C30,5µm,120Å,4.0x30mm	1
SLHC3054050	HPLC Column,C30,5µm,120Å,4.0x50mm	1
SLHC3054075	HPLC Column,C30,5µm,120Å,4.0x75mm	1
SLHC30540100	HPLC Column,C30,5µm,120Å,4.0x100mm	1
SLHC30540125	HPLC Column,C30,5µm,120Å,4.0x125mm	1
SLHC30539150	HPLC Column,C30,5µm,120Å,3.9x150mm	1
SLHC30540150	HPLC Column,C30,5µm,120Å,4.0x150mm	1
SLHC30540200	HPLC Column,C30,5µm,120Å,4.0x200mm	1
SLHC30539250	HPLC Column,C30,5µm,120Å,3.9x250mm	1
SLHC30540250	HPLC Column,C30,5µm,120Å,4.0x250mm	1
SLHC30539300	HPLC Column,C30,5µm,120Å,3.9x300mm	1
SLHC30540300	HPLC Column,C30,5µm,120Å,4.0x300mm	1
SLHC3054630	HPLC Column,C30,5µm,120Å,4.6x30mm	1
SLHC3054633	HPLC Column,C30,5µm,120Å,4.6x33mm	1

SLHC3054650	HPLC Column,C30,5µm,120Å,4.6x50mm	1
SLHC3054675	HPLC Column,C30,5µm,120Å,4.6x75mm	1
SLHC30546100	HPLC Column,C30,5µm,120Å,4.6x100mm	1
SLHC30546125	HPLC Column,C30,5µm,120Å,4.6x125mm	1
SLHC30546150	HPLC Column,C30,5µm,120Å,4.6x150mm	1
SLHC30546200	HPLC Column,C30,5µm,120Å,4.6x200mm	1
SLHC30546250	HPLC Column,C30,5µm,120Å,4.6x250mm	1
SLHC30546300	HPLC Column,C30,5µm,120Å,4.6x300mm	1
SLHC301046250	HPLC Column,C30,10µm,120Å,4.6x250mm	1

## 1.20 Amino Acid Columns

### Description

Amino Acid HPLC columns are made from spherical, totally porous, and ultra-high purity (>99.999%) type B silica particles. Our proprietary surface modification before bonding generates a very smooth and uniform surface with less acidic surface silanol. Amino Acid columns provide the best performance in peak shape, efficiency and resolution for the analysis of 18 amino acids. Total sample preparing time can be achieved in as little as 30 min.

- A special chromatographic column for amino acid analysis
- Provide AA, including derivative method, standard, chromatographic column and derivative reagents

### Order Information

Item No	Description	Package (pcs/pk)
SLHAA546250	HPLC Column, Amino Acid,5µm,120Å,4.6x250mm	1

## 1.21 PAH Columns

### Description

PAHs (Polycyclic Aromatic Hydrocarbon) are considered priority pollutants and the analysis of these potentially carcinogenic compounds in water, air, soil and food. The PAH columns separate all of the 16 PAHs in EPA method 610 quickly (less than 30 min) with high resolution. The PAH columns is silica based columns for PAHs analysis with best peak shape.

- A special column for detection of polycyclic aromatic hydrocarbons
- Applicable to the EPA 610 method
- Good reproducibility and stability

## Order Information

Item No	Description	Package (pcs/pk)
SLHPAH321100	HPLC Column,PAH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHPAH321150	HPLC Column,PAH,3 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHPAH346150	HPLC Column,PAH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPAH346200	HPLC Column,PAH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHPAH346250	HPLC Column,PAH,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPAH546150	HPLC Column,PAH,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPAH546200	HPLC Column,PAH,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHPAH546250	HPLC Column,PAH,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPAH1046250	HPLC Column,PAH,10 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1

## 1.22 PFP Columns

### Description

PFP is a phase primarily used in the separation of molecules bearing fluorine atoms, but also be in the separation of non-fluorous compounds such as Taxol and its derivatives. Because of its phenyl ring, it has a higher selectivity for aromatics containing molecules compared to the other alkyl-fluorinated phase. PFP can separate nitro-benzene isomers (para vs. ortho), which cannot be separated by traditional phenyl phase.

- Hydrogen bonding
- Dipole-dipole interactions
- Aromatic and  $\pi$ - $\pi$  interactions
- Hydrophobic

### Order Information

Item No	Description	Package (pcs/pk)
SLHPFP32130	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHPFP32133	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHPFP32150	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHPFP32175	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHPFP321100	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHPFP321125	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHPFP321150	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHPFP321200	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHPFP321250	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHPFP33030	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1

SLHPPF33050	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHPPF33075	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1
SLHPPF330100	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHPPF330125	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHPPF330150	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHPPF330200	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHPPF330250	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHPPF34030	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHPPF34050	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHPPF34075	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHPPF340100	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHPPF340125	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHPPF339150	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHPPF340150	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHPPF340200	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHPPF339250	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHPPF340250	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHPPF34630	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHPPF34633	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHPPF34650	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHPPF34675	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHPPF346100	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHPPF346125	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHPPF346150	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPPF346200	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHPPF346250	HPLC Column,PFP,3 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPPF52130	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x30mm	1
SLHPPF52133	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x33mm	1
SLHPPF52150	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x50mm	1
SLHPPF52175	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x75mm	1
SLHPPF521100	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x100mm	1
SLHPPF521125	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x125mm	1
SLHPPF521150	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x150mm	1
SLHPPF521200	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x200mm	1
SLHPPF521250	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,2.1x250mm	1
SLHPPF53030	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x30mm	1
SLHPPF53050	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x50mm	1
SLHPPF53075	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x75mm	1

SLHPFP530100	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x100mm	1
SLHPFP530125	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x125mm	1
SLHPFP530150	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x150mm	1
SLHPFP530200	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x200mm	1
SLHPFP530250	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.0x250mm	1
SLHPFP54030	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x30mm	1
SLHPFP54050	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x50mm	1
SLHPFP54075	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x75mm	1
SLHPFP540100	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x100mm	1
SLHPFP540125	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x125mm	1
SLHPFP539150	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.9x150mm	1
SLHPFP540150	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x150mm	1
SLHPFP540200	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x200mm	1
SLHPFP539250	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.9x250mm	1
SLHPFP540250	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x250mm	1
SLHPFP539300	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,3.9x300mm	1
SLHPFP540300	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.0x300mm	1
SLHPFP54630	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x30mm	1
SLHPFP54633	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x33mm	1
SLHPFP54650	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x50mm	1
SLHPFP54675	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x75mm	1
SLHPFP546100	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x100mm	1
SLHPFP546125	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x125mm	1
SLHPFP546150	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x150mm	1
SLHPFP546200	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x200mm	1
SLHPFP546250	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x250mm	1
SLHPFP546300	HPLC Column,PFP,5 $\mu$ m,120 $\text{\AA}$ ,4.6x300mm	1

## 1.23 HILIC Amide Columns

### Description

HILIC Amide column is also a special column designed for HILIC mode. As amide group has strong hydrophilicity and stability and it is also an electrically neutral group, so Amide has a longer life, better separate repeatability and peak shape than  $\text{NH}_2$ .

- Formanyl silane phase bonded to Silica.
- Separation of high polar and hydrophilic compounds.
- Could be used as hydrophobic interaction chromatography. It is widely used in separation of peptides, nucleotide, glucoside or some other hydrophobic drugs.



### Order Information

Item No	Description	Package (pcs/pk)
SLHHA546100	HPLC Column, HILIC Amide, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x100mm	1
SLHHA546150	HPLC Column, HILIC Amide, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x150mm	1
SLHHA546250	HPLC Column, HILIC Amide, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x250mm	1

## 2. EChroma HPLC Columns

### Features

1. Perfect peak shape and low back pressure
2. Ultra high purity (>99.999%) Type B full porous spherical silica
3. New bonding and end-capping technique
4. Economical price

### Order Information

Item No	Description	Package (pcs/pk)
SLHC18546150	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x150mm	1
SLHC18546200	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x200mm	1
SLHC18546250	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x250mm	1
SLHC18546300	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x300mm	1
SLHC18560150	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 6.0x150mm	1
SLHC18560250	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 6.0x250mm	1
SLHC18565150	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 6.5x150mm	1
SLHC18565250	HPLC Column, C18, 5 $\mu$ m, 120 $\text{\AA}$ , 6.5x250mm	1
SLHC8546150	HPLC Column, C8, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x150mm	1
SLHC8546200	HPLC Column, C8, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x200mm	1
SLHC8546250	HPLC Column, C8, 5 $\mu$ m, 120 $\text{\AA}$ , 4.6x250mm	1

**Empty HPLC Column** in wide range of size in supply for multiple customer demand.

## About Hawach Scientific

Hawach is a modern enterprise, contains well integration of R&D, production, sales and after-sales service. Hawach located at Xi'an High-Tech development Zone, which is one of the five national level High-Tech development Zones with plant covers a production workshop area of 8000m<sup>2</sup>, with 4000m<sup>2</sup> of clean room. We have International advanced level of production lines to produce and make global supply of microporous Membrane, Syringe Filter, HPLC Sample Vials, Septa and Caps, along with Filter Paper, Vacuum Filtration Manifolds and Vacuum Pumps, Chromatography Columns, QuEChERS etc.

In Hawach Scientific, quality always comes first, in the very beginning, Hawach started to learn world advanced production technology and experience, especially quality control testing laboratory. We have ultraviolet absorption detector (UVD), liquid chromatography, integrity tester, flow rate tester, dielectric strength tester, heating plate, laser particle counter etc. After production, all articles are delivered to QC center, only qualified products can be to the next procedure.

Today, we are happy to see our products exported to the United States, Korea, Japan UK, Germany, Dubai, Israel and Mexico. The quality and service of our products receive consistent approval from customers. Our prospect is to be leader and century enterprise, Provide superior products, service and solution to global laboratories and factories. Hawach Scientific's mission is "Accomplish Sciences, help employee realized their dreams.", By joint efforts of Hawach's employee, business partners and customers, we believe Hawach can be a leader of laboratory industry.



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