

Acclaim C30 COLUMNS

Quick Start

1. Overview

The Thermo Fisher Scientific Acclaim™ C30 column is designed to provide high shape selectivity for separating hydrophobic, structurally-related isomers, and unique selectivity complementary to other reversed-phase columns (e.g. C18). The C30 stationary phase is based on a covalent modification of C30 alkyl silane onto high-purity, spherical, porous silica gel. This column is complementary to other reversed-phase columns (e.g. C18) in a broad range of applications such as pharmaceutical, food & beverage, chemical, environmental, academia research and etc.

2. Main features

- High shape selectivity.
- Unique selectivity complementary to other reversed-phase columns.
- Compatibility with highly aqueous mobile phase.
- Excellent performance – low column bleed, high efficiency, and rugged packing

3. Physical data

Bonding Chemistry: C30 alkyl
 Silica Substrate: Spherical, high-purity
 Particle size – 3, 5 µm
 Surface area – 200 m²/g
 Pore size – 200 Å

4. Operational Parameters

Column Dimension	P/N	Particle Size	pH Range	Temperature Limit	Maximum Pressure (psi)	Recommended Flow Rate (mL/min)	Maximum Flow Rate (mL/min)
4.6 x 250 mm	075718	5µm	2 – 8	< 60 °C	9,000	0.8 – 1.5	2.0
4.6 x 150 mm	075719	5µm	2 – 8	< 60 °C	8,000	0.8 – 1.5	2.0
4.6 x 250 mm	303056	3µm	2 – 8	< 60 °C	10,000	0.8 – 1.5	2.0
4.6 x 150 mm	075723	3µm	2 – 8	< 60 °C	8,000	0.8 – 1.5	2.0
4.6 x 100 mm	078660	3µm	2 – 8	< 60 °C	6,000	0.8 – 1.5	2.0
4.6 x 50 mm	078661	3µm	2 – 8	< 60 °C	4,000	0.8 – 1.5	2.0
3.0 x 250 mm	075726	3µm	2 – 8	< 60 °C	12,000	0.4 – 0.6	1.0
3.0 x 150 mm	075724	3µm	2 – 8	< 60 °C	8,500	0.4 – 0.6	1.0
3.0 x 100 mm	078662	3µm	2 – 8	< 60 °C	7,000	0.4 – 0.6	1.0
3.0 x 50 mm	078663	3µm	2 – 8	< 60 °C	4,500	0.4 – 0.6	1.0
2.1 x 250 mm	078664	3µm	2 – 8	< 60 °C	10,000	0.2 – 0.3	0.5
2.1 x 150 mm	075725	3µm	2 – 8	< 60 °C	8,500	0.2 – 0.3	0.5
2.1 x 100 mm	078665	3µm	2 – 8	< 60 °C	6,000	0.2 – 0.3	0.5
2.1 x 50 mm	078666	3µm	2 – 8	< 60 °C	4,500	0.2 – 0.3	0.5

5. Operational Guidelines

- Use the column following the direction of flow marked on the column.
- Operate this column according to “Operational Parameters” described above.
- Avoid sudden pressure surge.
- Store the column in 100% acetonitrile for long-term storage, and mobile phase for short-term storage.
- This column is compatible with 0 to 100% aqueous and all commonly used HPLC solvents.
- Always use guard column for real-life samples to protect the analytical column and extend its useful lifetime.

6. Ordering Information

	Particle Size	Column Dimensions	P/N	Required Holder
Analytical	5µm	4.6 x 250 mm	075718	
		4.6 x 150 mm	075719	
	3µm	4.6 x 250 mm	303056	
		4.6 x 150 mm	075723	
		3.0 x 250 mm	075726	
		3.0 x 150 mm	075724	
		4.6 x 100 mm	078660	
		4.6 x 50 mm	078661	
		3.0 x 100 mm	078662	
		3.0 x 50 mm	078663	
		2.1 x 250 mm	078664	
		2.1 x 100 mm	078665	
		2.1 x 50 mm	078666	
		2.1 x 150 mm	075725	
Guard	5µm	4.6 x 10 mm	075720	P/N 069580
		3.0 x 10 mm	075721	P/N 069580
		2.1 x 10 mm	075722	P/N 069580