

HPLC columns



# Low-flow HPLC columns

Enabling high sensitivity LC-MS analysis for bottom-up and top-down proteomics research



## Proteomics research columns

Thermo Fisher Scientific has a range of low-flow chromatography columns to meet your analytical and budgetary needs. Select the column that best suits your workflow.

	Packed bed column format		Pillar array column format
	Thermo Scientific™ EASY-Spray™ HPLC Columns	Thermo Scientific™ Double nanoViper™ HPLC Columns	Thermo Scientific™ μPAC™ HPLC Columns
Technology			
Benefits	<p><b>Ease-of-use</b></p> <ul style="list-style-type: none"> <li>Click-and-spray connect with Thermo Scientific™ EASY-Spray™ Source</li> <li>Thermo Scientific™ nanoViper™ connections</li> <li>Integrated column and emitter</li> <li>Integrated temperature control</li> <li>For use with Thermo Scientific™ mass spectrometer systems</li> </ul>	<p><b>Analytical flexibility</b></p> <ul style="list-style-type: none"> <li>Universal Thermo Scientific™ nanoViper™ Fingertight Fittings for column inlet and outlet</li> <li>Simple zero-dead-volume (ZDV) connections</li> <li>Separate emitters</li> <li>Compatible with all low-flow U/HPLC instruments</li> </ul>	<p><b>Ultimate separation</b></p> <ul style="list-style-type: none"> <li>Excellent retention time stability</li> <li>Low back pressure separations, improving column and emitter robustness</li> <li>Separate emitters</li> <li>Compatible with all low-flow U/HPLC instruments</li> </ul>
Application areas/chemistries	<p><b>Bottom-up proteomics</b></p> <p>The Thermo Scientific™ PepMap™ Neo UHPLC Columns are a recent addition to our portfolio. PepMap Neo columns are packed to higher pressure, which provides 1500 bar pressure rating, improved column-to-column consistency, and increased efficiency.</p> <p><b>Top-down and middle-down proteomics</b></p> <p>The Thermo Scientific™ MAbPac™ Capillary Reversed-Phase HPLC Column is best suited for the characterization of intact proteins in top- and middle-down proteomics applications where sample amount is critically limited.</p>		<p>Deliver excellent column-to-column reproducibility with flow rate flexibility. Ideally suited for proteomic analysis for HPLC separations up to 350 bar.</p> <ul style="list-style-type: none"> <li>50 cm column &lt;120 min separations</li> <li>200 cm column &gt;120 min separations</li> </ul>

## Ordering information

### EASY-Spray columns

Part number	Column type	Column I.D.	Column length
<b>Bottom-up proteomics columns</b>			
ES75150PN	PepMap Neo	75 µm	150 mm
ES75500PN	PepMap Neo	75 µm	500 mm
ES75750PN	PepMap Neo	75 µm	750 mm
<b>Top-down proteomics columns</b>			
ES907	MABPac Capillary RP	150 µm	150 mm



### Double nanoViper columns

Part number	Column type	Column I.D.	Column length
<b>Bottom-up proteomics columns</b>			
DNV75150PN	PepMap Neo	75 µm	150 mm
DNV75500PN	PepMap Neo	75 µm	500 mm
DNV75750PN	PepMap Neo	75 µm	750 mm
<b>Top-down proteomics columns</b>			
164947	MABPac Capillary RP	150 µm	150 mm



### µPAC columns

Part number	Column type	Pillar diameter	Interpillar distance	Column length	Flow rate range
COL-nano050G1B	µPAC micro Pillar Array	5 µm	2.5 µm	50 cm	0.1–2.0 µL/min
COL-nano200G1B	µPAC micro Pillar Array	5 µm	2.5 µm	200 cm	0.1–1.0 µL/min
COL-cap050G1B	µPAC micro Pillar Array (Capillary-flow)	5 µm	2.5 µm	50 cm	1.0–15.0 µL/min



Find out more at [thermofisher.com/lowflowHPLCcolumns](https://thermofisher.com/lowflowHPLCcolumns)

**thermo** scientific