Thermo Fisher

Low-flow HPLC columns

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



Proteomic 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.

	Pillar array column format Packed		ed column format	
	Thermo Scientific [™] µPAC [™] Neo HPLC Columns	Thermo Scientific [™] EASY-Spray [™] HPLC Columns	Thermo Scientific [™] Double nanoViper [™] HPLC Columns	
Technology	thermo scientific			
Benefits	 Ultimate separation Excellent retention time stability A unique combination of performance and reliability to get the highest sample coverage every time Separate emitters Compatible with all low-flow U/HPLC instruments Bottom-up proteomic analysis 	 Ease-of-use Click-and-spray connect with Thermo Scientific[™] EASY-Spray[™] Source Thermo Scientific[™] nanoViper[™] connections Integrated column and emitter Integrated temperature control For use with Thermo Scientific[™] mass spectrometry systems 	 Analytical flexibility Universal Thermo Scientific[™] nanoViper[™] Fingertight Fittings for column inlet and outlet Simple zero-dead-volume (ZDV) connections Separate emitters Compatible with all low-flow U/HPLC instruments 	
Application areas/chemistries	 Deliver excellent column-to-column reproducibility with flow rate flexibility. Ideally suited for proteomic analyses of HPLC separations up to 450 bar. 50 cm column: 15–60 min gradient time 110 cm column: 90–150 min gradient time 50 cm Low Load column: single cell analysis 15–60 min gradient time High Throughput column: <15 min gradient time 	our portfolio. PepMap Neo columns are pa 1500 bar pressure rating, improved colum increased efficiency. Top- and middle-down proteomic app The Thermo Scientific [™] MAbPac [™] Capillar	Map [™] Neo UHPLC Columns are a recent addition to olumns are packed to higher pressure, which provides proved column-to-column consistency, and oteomic applications oPac [™] Capillary Reversed-Phase HPLC Column is rization of intact proteins in top- and middle-down	

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Ordering information

EASY-Spray columns

Part number Column type		Column I.D.	Column length					
Bottom-up proteomic columns								
ES75150PN	PepMap Neo	75 µm	150 mm					
ES75500PN	PepMap Neo	75 µm	500 mm					
ES75750PN	PepMap Neo	75 µm	750 mm					
Top-down proteomic columns								
ES907	MAbPac Capillary RP	150 µm	150 mm					



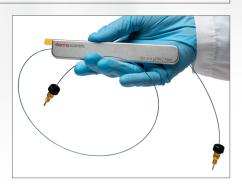
Double nanoViper columns

Part number Column type		Column I.D.	Column length					
Bottom-up proteomic columns								
DNV75150PN	PepMap Neo	75 µm	150 mm					
DNV75500PN	PepMap Neo	75 µm	500 mm					
DNV75750PN	PepMap Neo	75 µm	750 mm					
Top-down proteomic columns								
164947	MAbPac Capillary RP	150 µm	150 mm					



µPAC Neo columns

Part number	Column type	Column length	Flow rate range	Sample loading	Gradient time			
Bottom-up proteomic columns								
COL-NANO050NEOB	µPAC Neo column	50 cm	100–750 nL/min	10–500 ng	15–60 min			
COL-NANO110NEOB	µPAC Neo column	110 cm	100–750 nL/min	500–2,000 ng	90–150 min			
COL-LOLO050NEOB	µPAC Neo Low Load column	50 cm	100–750 nL/min	0.1–1 ng	15–60 min			
COL-CAPHTNEOB	µPAC Neo High Throughput column	5.5 cm	100–2,500 nL/min	10–500 ng	<15 min			



Find out more at thermofisher.com/lowflowHPLCcolumns

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