

Alltech ProSphere™ HP C18-AQ and ZAP! C18 Columns

High Resolution and High Throughput for Life Science Separations

ProSphere™ HP C18-AQ

- High resolution for peptide mapping
- Extended gradient capabilities with 100% water wettable phase
- Excellent peak shape from high purity silica
- Capillary to preparative formats available

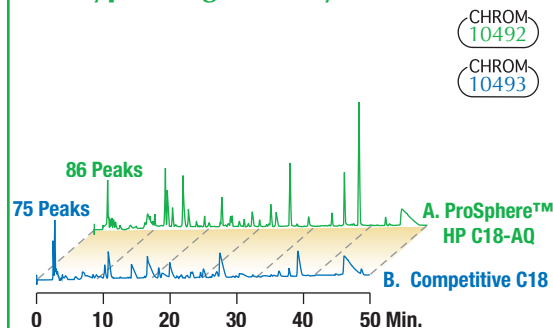
ProSphere™ HP C18-AQ is a high purity, water-wettable packing ideal for enzymatic digests of proteins and other small-molecule, complex-sample mixtures. The water wettable phase extends gradient capabilities from 100% aqueous conditions to 100% organic conditions while the high purity silica produces excellent peak shape for both acidic and basic peptides. These two features combine to make the ProSphere™ HP C18-AQ an excellent choice for today's demanding proteomic peptide separations.



C18-AQ Specifications

Base Material:	Silica
Particle Sizes:	3µm, 5µm
Pore Size:	100Å
Surface Area:	450m ² /g
pH Range:	2-8

Tryptic Digest of Cytochrome C



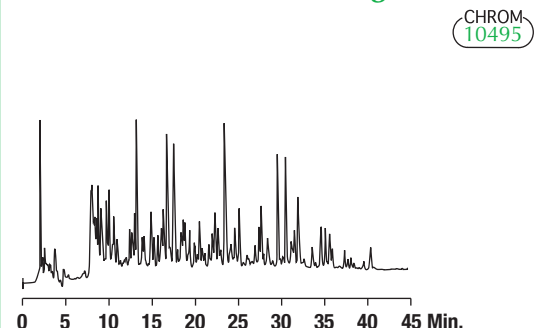
Column: ProSphere™ HP C18-AQ, 5µm
4.6 x 150mm, (Part No. 35579)
Mobile Phase: **A:** 5mM Acetic Acid in Water
B: 5mM Acetic Acid in Acetonitrile
Gradient:

Time:	0	50
%B:	0	40

Flow Rate: 0.8mL/min
Detector: UV at 220nm
Column Temp: 35°C

This water-wettable phase is more compatible with LC/MS mobile phases and delivers more peaks than traditional C18 phases.

Conalbumin A Digest



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Mobile Phase: **A:** 5mM Acetic Acid in Water
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Gradient:

Time:	0	50
%B:	0	40

Flow Rate: 0.8mL/min
Detector: UV at 220nm
Column Temp: 35°C

Resolve more peaks in less time with ProSphere™ HP C18-AQ.



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ProSphere™ HP ZAP! C18

- Small particle size for ultra-fast protein separations
- High throughput separations with standard flow rates
- 1.5µm, 500Å packing

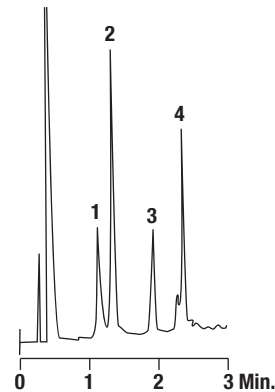
ProSphere™ HP ZAP! C18 in short columns lets you perform super-fast protein separations. In many cases, proteins adsorb to the top of the column and desorb all at once – they do not interact with the full length of the packed bed, so longer columns simply mean longer run times. With ZAP! C18 in a 10mm column, the gradient can be 10X faster than in a 100mm column, with just as efficient a separation.

ZAP! C18 Specifications

Base Material:	Silica
Particle Sizes:	1.5µm
Pore Size:	500Å
pH Range:	2-8

Fast Protein Separation

CHROM
10486



1. Cytochrome C
2. Lysozyme
3. β-Lactoglobulin
4. Ovalbumin

Column:	ProSphere™ HP ZAP! C18, 1.5µm 4.6 x 10mm, (Part No. 35586)
Mobile Phase:	A: Water with 0.1%TFA B: CH ₃ CN with 0.1%TFA
Gradient:	Time: 0 4 %B: 25 75
Flow Rate:	1.0mL/min
Detector:	UV at 280nm

ZAP! C18 uses small, 1.5µm particles for high speed, high-resolution analyses. This separation was complete in less than 4 minutes, compared to 12 minutes using a standard 3µm packing.

ProSphere™ HP C18-AQ HPLC Columns

PACKING	FORMAT	I.D. X LENGTH	PART NO.	PRICE
C18-AQ, 3µm	LC/MS	150µm x 50mm	35568	\$495.00
	LC/MS	150µm x 150mm	35574	525.00
	LC/MS	300µm x 50mm	35569	495.00
	LC/MS	300µm x 150mm	35575	525.00
	Solvent Reducer	3.0 x 50mm	35570	340.00
	Solvent Reducer	3.0 x 150mm	35576	450.00
	Analytical	4.6 x 50mm	35571	340.00
	Analytical	4.6 x 150mm	35578	450.00
C18-AQ, 5µm	Solvent Reducer	3.0 x 150mm	35577	450.00
	Solvent Reducer	3.0 x 250mm	35580	470.00
	Analytical	4.6 x 150mm	35579	450.00
	Analytical	4.6 x 250mm	35581	470.00
	Prep	10 x 100mm	35572	950.00
	Prep	22 x 100mm	35573	1400.00

ProSphere™ HP C18-AQ Analytical Guards*

PACKING	I.D. X LENGTH	QTY.	PART NO.	PRICE
C18-AQ	3.0 x 7.5mm	3	35582	\$129.00
All-Guard Cartridges*	4.6 x 7.5mm	3	35583	129.00
All-Guard™ Cartridge Holder (Includes Direct-Connect Column Coupler)		ea	80101	50.00

*Guard Holder required

ProSphere™ HP C18-AQ Prep Guards*

PACKING	I.D. X LENGTH	QTY.	PART NO.	PRICE
C18-AQ	7 x 33mm	ea	35584	\$225.00
Direct-Connect Column Coupler		ea	28195	26.00

*Direct-Connect Column Coupler required



All-Guard™ System -
changes cartridges in
seconds without tools.

ProSphere™ HP ZAP! C18 HPLC Columns

PACKING	FORMAT	I.D. X LENGTH	PART NO.	PRICE
ZAP! C18, 1.5µm	Expedite™ MS	2.1 x 10mm	35585	\$325.00
	Expedite™ MS	2.1 x 20mm	35587	325.00
	LC/MS	4.6 x 10mm	35586	325.00
	LC/MS	4.6 x 20mm	35588	325.00
	Rocket™	7 x 33mm	35589	525.00

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