

HiLoad Superose 6 pg preparative SEC column

Product Information

Cat#No# Hi-311P

Product Overview

HiLoad 16/600 Superose 6 prep grade (pg) is a prepacked size exclusion chromatography (SEC) column for high-resolution purification of large biomolecules and protein complexes. The column is an excellent choice for purification of sample volumes up to 5 mL.

Description

HiLoad 16/600 Superose 6 prep grade (pg) prepacked column is designed for purification of large proteins and protein complexes by size exclusion chromatography (SEC) in sample volumes up to 5 mL. The column is packed with Superose 6 prep grade chromatography resin having a fractionation range suitable to separate biomolecules with molecular weights (M_r) from ~ 5000 to $5\,000\,000$ by size exclusion chromatography (SEC). This very wide fractionation range also makes the column suitable for purification of membrane proteins and other macromolecules.

Characteristic

Convenience and reproducibility: can be used with standalone pump or a chromatography system.

High-resolution separations: purification is possible across an exceptionally broad molecular-weight range.

Scalable: separations can be scaled up using Superose 6 prep grade resin.

ÄKTA system compatible: fittings (1/16") for direct connection to ÄKTA systems and other chromatography systems.

Matrix

Cross-linked agarose, 6%, spherical.

Particle Size

$\sim 30 \pm 10 \mu\text{m}$

Recommended flow rate

Up to 40 cm/h

Recommended column height

HiLoad Superose 6 pg preparative SEC column

600 mm

pH working range

3 to 12

CIP stability

1 to 14

Storage

4 to 30°C

Shipping

20% ethanol

Equilibration

1. One column volume (CV) of low ionic strength buffer at 1 mL/min.
2. Two CV of buffer, for example, 0.05 M phosphate buffer, 0.15M NaCl, pH 7.2 at 1.6 mL/min.

Cleaning-in-place

Wash the column with one-half to one CV 0.5 M NaOH at a flow rate of 0.8 mL/min for 16/600 or 2.2 mL/min for 26/600 to remove most of the nonspecifically bound proteins from the chromatography resin. After cleaning, immediately equilibrate the column with at least two CV buffer. Further equilibration is necessary if the buffer contains detergents. Wait until the UV baseline stabilizes before starting a new purification.

Pack size

1

Maximum flow velocity

1.6 mL/min at room temperature

Dimensions

16 × 600 mm

Column volume

120 mL



HiLoad Superose 6 pg preparative SEC column

Column i.d.

16 mm

Column hardware pressure limit

0.5 MPa, 5 bar, 73 psi

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