

Superdex 75 Increase

Product Information

Cat#No# Su-322P

Product Overview

Superdex 75 Increase 10/300 GL, 5/150 GL, and 3.2/300 are prepacked columns for versatile use in size exclusion chromatography applications. The columns are intended for use in preparative purification as well as for characterization and analysis of proteins with molecular weights between Mr 3000 and 70 000, such as recombinant tagged proteins.

Description

Superdex 75 Increase prepacked columns are designed for rapid separation and analysis of proteins with molecular weights ranging from Mr 3000 to 70 000 by size exclusion chromatography (SEC), also called gel filtration. These versatile columns offer separations with high resolution for a variety of applications including preparative protein purification (µg to mg quantities), aggregate analysis, studies of complex formation, and screening of samples. Superdex 75 Increase belongs to the new generation of SEC columns that replaces the well-known Superdex 75 columns

Characteristic

Up to 50% higher resolution compared with predecessor Superdex 75, for improved purity and analysis results.

Runtime reduced down to one third compared with predecessor Superdex 75, with maintained resolution for results faster.

Versatile use in both preparative and analytical applications, especially with recombinant tagged proteins.

Higher lot-to-lot consistency compared with predecessor Superdex 75.

Tolerance to repeated harsh cleaning procedures at high pH ensures long column lifetime and minimizes carryover.

Matrix

Composite of cross-linked agarose and dextran.

Average particle size

~ 9 µm

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Recommended flow rate

0.80 mL/min

Recommended column height

300 to 310 mm

Chemical stability

Resistant to most solutions used in liquid chromatography except hydrocarbons, aromatic solvents, and chlorinated hydrocarbons.

pH working range

3 to 12

CIP stability

1 to 14

Storage

4°C to 30°C, 20% ethanol

Maximum flow velocity

1.60 mL/min, water at room temperature; 0.80 mL/min, 20% ethanol or 10% glycerol at room temperature; 0.80 mL/min water at low temperature; 0.40 mL/min 20% ethanol or 10% glycerol at low temperature.

Dimensions

10 × 300 mm

Column volume

~ 24 mL

Column i.d.

10 mm

Bed support

Filter

Superdex 75 Increase

Material (bed support)

Polyethylene (PE) filter

Material (column tube)

Borosilicate glass

Material (column hardware)

Borosilicate glass, polyetheretherketone (PEEK), polypropylene (PP), ethylene propylene diene monomer (EPDM), and perfluoro-rubber (PFR).
