



New generation Size Exclusion Chromatography (SEC) columns

Maximized resolution and optimized run time for small-scale preparative purification and analysis

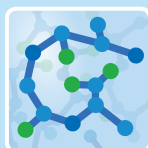
Our new generation size exclusion chromatography columns called “Increase” are designed for high resolution in small-scale preparative purification and analysis for sample volumes up to 500 μL .

They deliver improved performance compared to predecessor columns*:

- Reduced run time with maintained resolution for time saving or increased throughput
- Higher resolution for improved protein purity and analysis data
- Higher lot-to-lot consistency for better reproducibility

In 2017, GE expands the range of new generation SEC columns with Superdex™ 30 Increase

- Four choices of new generation SEC resins for small-scale preparative purification and analysis
- Superdex 30 Increase is the replacement for Superdex Peptide columns



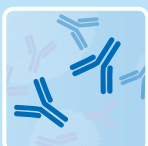
Superdex 30 Increase

Peptides and other small biomolecules
Fractionation range $M_r \sim 100$ to 7000



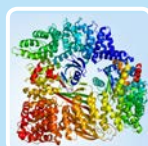
Superdex 75 Increase

Recombinant tagged proteins
Fractionation range $M_r \sim 3000$ to 70 000



Superdex 200 Increase

mAb and other antibodies
Fractionation range $M_r \sim 10\,000$ to 600 000



Superose™ 6 Increase

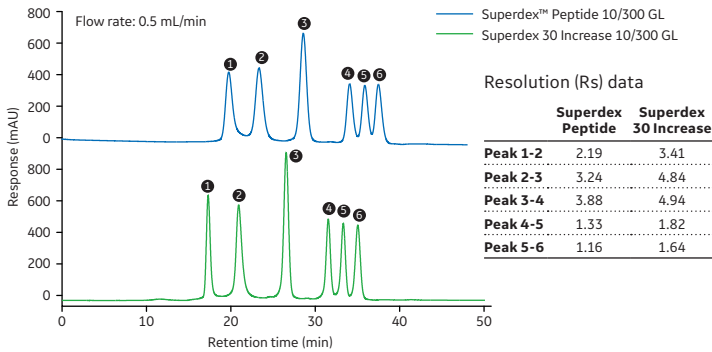
Larger proteins and protein complexes†
Fractionation range $M_r \sim 5000$ to 5 000 000



New generation SEC columns deliver improved performance compared to predecessor columns*

The agarose resins have been optimized to deliver improved performance compared with their predecessors (smaller and more rigid beads, narrower particle size distribution, higher selectivity).

Higher resolution at the same flow rate



Faster separation with the same resolution

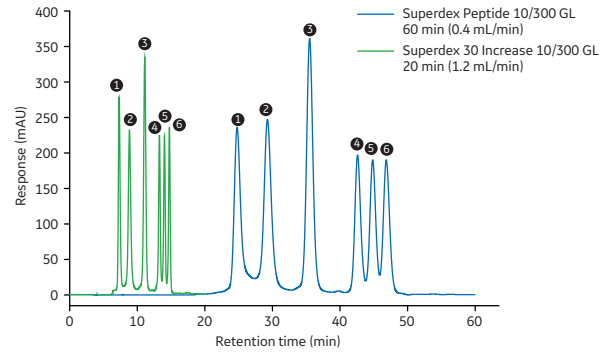





Fig 1. Compared with Superdex Peptide, new generation Superdex 30 Increase delivers up to 50% higher resolution at the same flow rate, or three time faster separation with the same resolution.

Three column dimensions for new generation SEC columns to fit different needs

 <p>10 mm × 300 mm (Tricorn™ 10/300 GL)</p> <ul style="list-style-type: none"> • High resolution analysis (25 to 500 µL sample volume) • Small-scale preparative runs (milligram amount) 	 <p>3.2 mm × 300 mm (Precision Column 3.2/300)</p> <ul style="list-style-type: none"> • High resolution analysis (4 to 50 µL sample volume) • Small-scale preparative runs (microgram [µg] amount) • Low sample and buffer consumption 	 <p>5 mm × 150 mm (Tricorn 5/150 GL‡)</p> <ul style="list-style-type: none"> • Purity check • Rapid screening • Low sample (4 to 50 µL sample volume) and buffer consumption
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These columns are recommended for use with ÄKTA™ pure 25 systems and traditional HPLC™ systems. Transparency of the columns enable an easy inspection of the resin bed.

Ordering information

Dimensions (mm)	Superdex 30 Increase	Superdex 75 Increase	Superdex 200 Increase	Superose 6 Increase
10 × 300	29219757	29148721	28990944	29091596
5 × 150	Custom design†	29148722	28990945	29091597
3.2 × 300	29219758	29148723	28990946	29091598

For additional information, please visit gelifesciences.com/SEC-Increase

* Superdex 30 Increase replaces Superdex Peptide, Superdex 75 Increase replaces Superdex 75, Superdex 200 Increase replaces Superdex 200, Superose 6 Increase replaces Superose 6.

† This image is reproduced from Wikimedia Commons (https://en.wikipedia.org/wiki/File:Protein_AP2A1_PDB_1gw5.png) and is licensed under the [Creative Commons Attribution-Share Alike 3.0 Unported license](https://creativecommons.org/licenses/by-sa/4.0/).

‡ This column dimension not available for Superdex 30 Increase as a standard product but can be ordered as a custom design product.