

## Capto Q ImpRes in ReadyToProcess columns

### Product Information

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**Cat#No#** Ca-196P

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### Product Overview

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These ReadyToProcess chromatography columns are prepacked with Capto Q ImpRes chromatography resin and are excellent for intermediate and polishing purification steps. ReadyToProcess columns are validated high-performance bioprocessing columns that are supplied prepacked and ready for use.

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### Description

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Capto Q ImpRes is strong cation and strong anion exchangers for the high-throughput intermediate purification and polishing steps of a wide range of biomolecules. Both chromatography media (resins) are part of platform of high-resolution media based on the Capto product line.

By combining the high-flow characteristics of Capto media with a small particle size, Capto Q ImpRes deliver excellent pressure-flow properties with excellent resolution. The ability to run at higher flow rates and higher bed heights increases productivity and flexibility in process design.

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### Characteristic

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High-resolution intermediate purification and polishing based on the well-established Capto platform with traditional ligands.

Flexible process design due to large operational window of flow rates and bed heights.

High-throughput purifications easy to optimize and scale.

High manufacturing productivity enables cost-effective processes.

Security of supply and comprehensive regulatory support.

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### Applications

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For manufacturing of biopharmaceuticals for clinical phase I and II studies. Depending on the scale of operations, they can also be used for full-scale manufacturing, as well as for preclinical studies.

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### Maximum operating pressure

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3 bar [0.3 MPa] (44 psi)

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### Metal ion capacity

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## Capto Q ImpRes in ReadyToProcess columns

0.15 to 0.18 mmol (Cl<sup>-</sup>)/mL medium

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**Matrix**

High-flow agarose

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**Average particle size**

40 µm

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**Dynamic binding capacity**

> 55 mg BSA/mL medium, > 48 mg β-lactoglobulin/mL medium.

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**Recommended flow rate**

At least 220 cm/h in a 1 m diameter column with bed height 20 cm at 20°C; measured using process buffers with the same viscosity as water at < 3 bar (0.3 MPa, 43.5 psi).

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**Recommended column height**

200 mm (7.87 in)

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**Chemical stability**

All commonly used aqueous buffers, 1 M sodium hydroxide<sup>¶</sup>, 8 M urea, 6 M guanidine hydrochloride, 30% isopropanol, and 70% ethanol.

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**pH working range**

2 to 12

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**CIP stability**

2 to 14

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**Storage**

4°C–30°C, 20% Ethanol

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**Pack size**

1 L

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**Dimensions**

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## Capto Q ImpRes in ReadyToProcess columns

80 × 200 mm

**Column volume**

1 L

**Column i.d.**

80 mm

**Functional group**

–CH<sub>2</sub> N<sup>+</sup> ( CH<sub>3</sub> ) 3