

## Capto HiRes ion exchange chromatography columns

### Product Information

---

**Cat#No#** Ca-195P

---

### Product Overview

---

Capto HiRes Q is prepacked columns for high-resolution purification of proteins and other biomolecules by ion exchange chromatography. They are well-suited for the preparation of highly pure proteins for structural studies and for protein analysis.

---

### Description

---

Capto HiRes Q is prepacked columns for high-resolution purification of proteins, peptides, polynucleotides, and other biomolecules by ion exchange chromatography, IEX.

The prepacked columns effectively separate biomolecules with small differences in net surface charge and are therefore well-suited to preparation of highly pure proteins in, for example, structural studies and protein analysis.

---

### Characteristic

---

High resolution columns—for laboratory scale ion exchange chromatography.

Suitable for preparing highly pure proteins—essential in, for example, structural studies using techniques such as cryo-electron microscopy or protein crystallography.

Suitable for protein analysis in research or quality control—for example, for characterization of target protein charge variants.

High quality column—excellent reproducibility, durability, and high chemical and pH stabilities.

Replacement for Mono Q and Mono S columns—delivering similar or improved resolution, with easy transition from one column platform to the other.

---

### Maximum operating pressure

---

4.0 MPa, (40 bar, 580 psi)

---

### Metal ion capacity

---

~ 0.23 mmol Cl<sup>-</sup> /mL resin

---

### Matrix

---

## Capto HiRes ion exchange chromatography columns

Highly cross-linked agarose, spherical

---

**Ionic Exchanger Type**

Strong anion exchanger (quaternary ammonium)

---

**Average particle size**

~ 9 µm

---

**Recommended flow rate**

0.5 to 2.0 mL/min

---

**Chemical stability**

All commonly used aqueous buffers, pH 2–12.

Urea, up to 8 M.

Acetonitrile, up to 30% in aqueous buffers.

Nonionic detergents.

Cationic detergents.

---

**pH working range**

2–12

---

**CIP stability**

1–14

---

**Storage**

4°C to 30°C

---

**Pack size**

1

---

**Maximum flow velocity**

2.0 mL/min

---

**Dimensions**

5 × 50 mm

---

## Capto HiRes ion exchange chromatography columns

Column volume
1 mL
Functional group
-CH <sub>2</sub> -N <sup>+</sup> (CH <sub>3</sub> ) <sub>3</sub>