

## HiTrap Capto S ImpAct

### Product Information

**Cat#No#** Hi-231P

### Product Overview

HiTrap Capto S ImpAct columns are prepacked with Capto S ImpAct cation exchange chromatography resin for screening and small-scale protein purifications using ion exchange chromatography (IEX).

### Description

HiTrap Capto S ImpAct (1 mL and 5 mL) are prepacked columns for small scale purifications, as well as optimization of methods and parameters, such as sample load and binding conditions. HiTrap Capto S ImpAct columns provide fast, reproducible and easy separations in a convenient format. The columns are best utilized when they are connected to liquid chromatography systems.

### Characteristic

Convenient prepacked column for fast, reproducible, and easy small-scale purifications.

High binding capacity, > 100 mg MAb/mL resin.

Efficient aggregate removal at high load of monoclonal antibodies.

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

Flexibility of design thanks to a large operational window of flow rates and bed heights for easy optimization and scaling.

### Metal ion capacity

37 to 63  $\mu\text{mol (H}^+ \text{)}/\text{mL}$  medium

### Matrix

High-flow agarose

### Particle Size

50  $\mu\text{m}$

### Dynamic binding capacity

> 100 mg IgG/mL medium; > 90 mg lysozyme/mL medium; > 85 mg BSA/mL medium.

### Recommended flow rate

## HiTrap Capto S ImpAct

Minimum 220 cm/h in a 1 m diameter column with 20 cm bed height at 20°C; measured using process buffers with the same viscosity as water at < 3 bar (44 psi, 0.3 MPa).

---

**Recommended column height**

25 mm

---

**Chemical stability**

All commonly used aqueous buffers, 1 M sodium hydroxide (NaOH), 8 M urea, 6 M guanidine hydrochloride, 30% isopropanol, and 70% ethanol.

---

**pH working range**

4 to 12

---

**CIP stability**

3 to 14

---

**Storage**

4 to 30°C, 20% Ethanol

---

**Pack size**

5 × 1 mL

---

**Maximum flow velocity**

4 mL/min

---

**Maximum operating backpressure**

3 bar (44 psi, 0.3 MPa)

---

**Dimensions**

7 × 25 mm

---

**Column volume**

1 mL

---

**Column i.d.**

---

## HiTrap Capto S ImpAct

7 mm

---

**Column hardware pressure limit**

---

5 bar (73 psi, 0.5 MPa)

---

**Functional group**

---

SO<sub>3</sub> -

---