HiTrap Benzamidine FF (High Sub)

Product Information

Cat#No#	Hi-069P

Product Overview

HiTrap Benzamidine FF (high sub) are prepacked with Benzamidine Sepharose 4 Fast Flow (high sub) and designed specifically for the removal and/or purification of serine proteases such as thrombin.

Description

HiTrap Benzamidine FF (high sub) are prepacked 1 mL and 5 mL columns for convenient, one-step removal and/or purification of trypsin, trypsin-like serine proteases, and zymogens including urokinase and prekallikrein. Removal of serine proteases is easily done directly from serum, monoclonal cell supernatants and bacterial lysates.

Characteristic

Effective removal of thrombin and factor Xa after tag cleavage of recombinant proteins.
Removal of serine proteases is easily done directly from serum, monoclonal cell supernatants and bacterial lysates.
HiTrap Benzamidine FF for convenient, one-step removal and/or purification of trypsin, trypsin-like serine proteases, and zymogens including urokinase and prekallikrein.
High binding capacity.
The columns can be operated using syringe, peristaltic pump or liquid chromatography system such as ÄKTA design or FPLC System.

Applications

For the removal and/or purification of serine proteases e.g. thrombin.

Maximum operating pressure

5 bar [0.5 MPa] (70 psi)

Matrix

Highly cross-linked agarose, 4%

Average particle size

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HiTrap Benzamidine FF (High Sub)

90 µm
Ligand
p-aminobenzamidine (pABA)
Ligand density
12 µmol p-aminobenzamidine/ml medium
Dynamic binding capacity
35 mg trypsin/ml medium
Recommended flow rate
< 4 ml/min
Recommended column height
25 mm
Chemical stability
All commonly used aqueous buffers
pH working range
1 to 9
CIP stability
2 to 8
Storage
2 to 8°C, 0.05 M Sodium Acetate, pH 4.0 in 20% Ethanol.
Purification procedures
1. Fill the pump tubing or syringe with distilled water. Connect the column to the syringe (use the adaptor supplied) or pump tubing “drop-to-drop” to avoid introducing air into the column. 2. Remove the snap-off end at the column outlet. 3. Wash the column with 5 column volumes of distilled water to remove the storage buffer (0.05 M acetate buffer, pH 4 containing 20% ethanol).

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4. Equilibrate the column with 5 column volumes of binding buffer.
5. Apply the sample using a syringe fitted to the luer connector or by pumping it onto the column.
6. Wash with 5–10 column volumes of binding buffer or until no material appears in the eluent.
7. Do a second wash with high salt, if preferred.
8. Elute with 5–10 column volumes of elution buffer of choice.

Pack size
5 × 1 mL
Maximum flow velocity
4 ml/min and 20 ml/min for 1 and 5 ml columns respectively.
Dimensions
7 × 25 mm
Column volume
1 mL
Column i.d.
7 mm
Column hardware pressure limit
5 bar (0.5 MPa)

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