

## CDM PreDicator Benzamidine 4FF HS

### Product Information

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**Cat#No#** CD-061P

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### Product Overview

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HiTrap Benzamidine FF (high sub) are prepacked, ready to use 1 ml and 5 ml columns containing Benzamidine Sepharose 4 Fast Flow (high sub). These products are excellent tools for removal of proteolytic activity from a protein or peptide preparation or purification of trypsin and trypsin-like serine proteases such as thrombin and enterokinase.

HiTrap Benzamidine FF (high sub) is also convenient to use for removal of enzymes (e.g., thrombin) after cleavage of the tag from a recombinant fusion protein. Fast, simple and easy separations are provided by the combination of the prepacked column with a high binding capacity affinity medium that has good flow properties.

HiTrap Benzamidine FF (high sub) columns can be operated with a syringe, pump or liquid chromatography system.

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### Characteristic

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Fast and convenient to use.

Very high binding capacity.

Simple operation with a syringe, a pump, an ÄKTA system, or other chromatography systems.

Scaling-up is easily achieved by connecting several 1 ml or 5 ml columns in series or using lab packages.

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### Matrix

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highly cross-linked 4% spherical agarose

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### Ligand

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p-aminobenzamidine (pABA)

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### Ligand density

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≥ 12 μmol p-aminobenzamidine/ml medium

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### Dynamic binding capacity

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≥ 35 mg trypsin/ml medium

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## CDM PreDicator Benzamidine 4FF HS

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**Recommended flow rate**

1 ml/min and 5 ml/min for 1 and 5 ml columns respectively.

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**Chemical stability**

All commonly used aqueous buffers

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**pH working range**

1 to 9

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**CIP stability**

2 to 8

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**Storage**

4 to 8°C, 20% Ethanol

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**Cleaning-in-place**

The cleaning protocol has to be designed for each protein. General recommendation is to use a solution of guanidine hydrochloride to remove precipitated or denatured substances. For hydrophobically bound substances a solution of nonionic detergent or ethanol is recommended. Short term use of pH 1 to 9 is possible. For example, more than half of the trypsin capacity is available after 1 week (168 h) contact time at pH 9 (Fig 3). However, prolonged exposure to pH greater than 8 and lower than 2 should be avoided due to hydrolysis of the ligand at high pH and decomposition of the matrix at low pH.

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**Pack size**

4 × 96-well filter plates

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**Maximum flow velocity**

4 ml/min and 20 ml/min for 1 and 5 ml columns respectively.

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**Dimensions**

0.7 × 2.5 cm (1 ml)

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**Column volume**

1 ml and 5 ml

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## CDM PreDicator Benzamidine 4FF HS

**Column hardware pressure limit**

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5 bar (0.5 MPa, 70 psi)

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**Centrifugation force recommended**

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100 x g (Sample Dependent)-500 x g (Sample Dependent)

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**Centrifugation force max.**

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700 x g

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**Operating temp. max.**

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30°C

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**Operating temp. min.**

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4°C

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