

Pefabloc® SC

Description: Pefabloc® SC is an irreversible proteinase inhibitor with broad specificity for serine proteinases.

Application: Pefabloc® SC is suitable for biopharmaceutical downstream purification because of its superior solubility, stability, inhibitory activity and low toxicity.

Formula: C₈H₁₀FNO₂S·HCl **MW:** 239.7

Chem. Name: 4-(2-Aminoethyl)-benzenesulfonylfluoride hydrochloride (AEBSF)

Solubility: 200 mg/ml in H₂O in water

Storage: May be used by the expiry date given on the label when stored unopened, protected from moisture, in the dark, 2 - 8°C. Avoid contamination of the reagents by micro-organisms.
Shipment of product does not require cooling during the time of transportation.

IC₅₀ values: The following table shows IC₅₀ values for a selection of enzymes determined at pH 7.0, 25 °C after 15 minutes incubation time.

Enzyme	Enzyme conc.	IC ₅₀ [mM]
Trypsin	0.2 µg/ml	0.081
Chymotrypsin	2.44 µg/ml	0.044
Thrombin	0.079 µg/ml	0.92
Factor Xa	0.12 U/ml	24.0
Plasmin	4 CTA-U/ml	1.99
tPA	5.0 µg/ml	0.72
uPA	24.0 µg/ml	0.072
Glandular kallikrein	3.5 µg/ml	2.86
Elastase	2.44 µg/ml	0.525
Subtilisin A	0.49 µg/ml	1.801
Factor XIIa	0.013 U/ml	0.256

References:

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Migration of neutrophils across human pulmonary endothelial cells is not blocked by matrix metalloproteinase or serine protease inhibitors.
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Production, purification and characterization of a 50-kDa extracellular metalloprotease from *Serratia marcescens*.
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Package size: Vial 1 g and 10 g

Code: 399-01

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