

# Pefabloc<sup>®</sup> SP

**Description:** Pefabloc<sup>®</sup> SP is a synthetic inhibitor for a range of trypsin-like serine proteinases. Pefabloc<sup>®</sup> SP inhibits serine proteinases competitively. The inhibitory effect depends on the pH-value. It is increased below pH 7.0 and is decreased above pH 8.0.

**Application:** Pefabloc<sup>®</sup> SP can be used to inhibit the proteolytic activity of trypsin-like serine proteinases during purification of polypeptides and proteins. Due to its low molecular weight, the separation from the protein of interest can be easily accomplished by conventional techniques.

**Formula:** C<sub>10</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>·HCl **MW:** 242.7

**Chem. name:** 4-Amidinophenylpyruvic acid hydrochloride

**Solubility:** up to 15 mg/ml in 0.4 M HCl, up to 300 mg/ml in DMSO

**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.

**K<sub>i</sub> constants:** The following table shows the inhibition of serine proteinases.

Enzyme	K <sub>i</sub> [μM]
Trypsin	1.6
Thrombin	6.5
Factor Xa	9.4
Factor XIIa	86
Plasmin	60
uPA	29
sc-tPA	> 1000
tc-tPA	83
Plasma kallikrein	1.4
Glandular kallikrein	610
Acrosin	0.36
Batroxobin (B. atrox)	350
Batroxobin (B. moojeni)	200
PCa	36
Tryptase	0.71

**References:** Hauptmann J.  
Pharmacology of benzamidine-type thrombin inhibitors.  
Folia Haematol 1982; 109: 89-97.

**Package size:** Bulk [g] **Code:** 398-01

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