

Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.
The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

PENTAPHARM

Pefabloc®TH (α-NAPAP)

Description: The benzamidine moiety is a key structure for the development of inhibitors of trypsin-like enzymes. It mimics the protonated side-chain of the basic amino acids Arg and Lys which is hydrolysed by these enzymes. Pefabloc®TH (NAPAP) is one of the most potent and selective competitive inhibitors of thrombin.

Application: Pefabloc®TH can be used in diagnostic systems, analytical applications, research and industrial purification processes to exclude undesired thrombin activity. It can also be used as a potent anticoagulant in *in vitro* test systems.

Formula: C₂₇H₃₁O₄N₅S·AcOH **MW:** 581.7

Chem. name: Nα-(2-Naphthylsulfonylglycyl)-4-amidino-(D,L)-phenylalanine piperidide acetate (NAPAP)

Solubility: 1.5 mg/ml (2.6 mM) in H₂O

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_i constants: K_i values for the inhibition of several trypsin-like serine proteases by Pefabloc®TH

Enzyme	K _i [μM]
Trypsin	0.69
Thrombin (bovine)	0.006
Factor Xa	7.9
Factor XIIa	450
Plasmin	30
uPA	230
sc-tPA	430
tc-tPA	70
Plasma kallikrein	14.4
Glandular kallikrein	93
Acrosin	2.9
Batroxobin (B. atrox)	1.7
Batroxobin (B. moojeni)	3.8
PCa	4.8
Tryptase	45
Chymotrypsin	625

References: Stürzebecher J, Walsmann P, Voigt B, Wagner G. Inhibition of bovine and human thrombins by derivatives of benzamidine. *Thromb Res* 1984; 36: 457-65.

Package size: Bulk [mg] / minimum order 5mg

Code: 381-01

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