

H-D-Phe-Pip-Arg-pNA Hydrochloride, Thrombin Substrate

Catalog	Unit
TBP0128-5MG	5 mg
TBP0128-10MG	10 mg

Description

H-D-Phe-Pip-Arg-pNA hydrochloride is a synthetic chromogenic substrate designed to mimic the N-terminal sequence of the A α chain of fibrinogen, the natural substrate of thrombin. This substrate is highly specific for thrombin and is widely utilized in coagulation studies to measure thrombin activity and antithrombin III (AT-III) function. Upon cleavage by thrombin, H-D-Phe-Pip-Arg-pNA hydrochloride releases p-nitroaniline (pNA), a chromophore that can be quantitatively detected by its absorbance at 405 nm, providing a reliable and sensitive method for assessing thrombin activity.

Product Details

Formal Name: D-phenylalanyl-(2S)-2-piperidinecarbonyl-N-(4-nitrophenyl)-L-argininamide, monohydrochloride

Alternative names: S-2238 (hydrochloride); D-Phe-Piperidinecarbonyl-Arg-p-nitroanilide

Molecular Formula: C₂₇H₃₆N₈O₅ • HCl

Formula Weight: 589.09

CAS Number: 160192-34-7

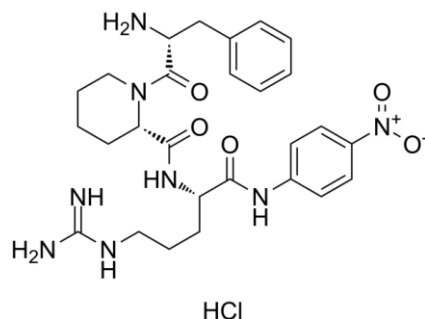
Purity: ≥98%

Formulation: powder

Storage: -20°C

Stability: >4 years

Solubility: DMSO



For research use only