H-D-Phe-Pip-Arg-pNA hydrochloride

Cat. No.: HY-123275A

CAS No.: 160192-34-7

Molecular Formula: $C_{27}H_{37}ClN_8O_5$

Molecular Weight: 589.09

Target: Fluorescent Dye

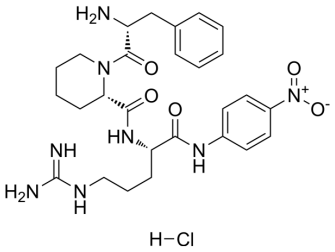
Pathway: Others

Storage: Sealed storage, away from moisture and light

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 250 mg/mL (424.38 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6975 mL	8.4877 mL	16.9753 mL
	5 mM	0.3395 mL	1.6975 mL	3.3951 mL
	10 mM	0.1698 mL	0.8488 mL	1.6975 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

H-D-Phe-Pip-Arg-pNA (S-2238) hydrochloride, a chromogenic substrate, is patterned after the N-terminal portion of the A alpha chain of fibrinogen, which is the natural substrate of thrombin. H-D-Phe-Pip-Arg-pNA hydrochloride is specific for thrombin and is used to measure antithrombin-heparin cofactor (AT-III). The AT-III assay using H-D-Phe-Pip-Arg-pNA hydrochloride is sensitive, accurate, and easy to perform[1][2].

REFERENCES

[1]. Goodnight SH Jr, et al. Measurement of antithrombin III in normal and pathologic states using chromogenic substrate S-2238. Comparison with immunoelectrophoretic and factor Xa inhibition assays. Am J Clin Pathol. 1980;73(5):639-647.

[2]. van Voorthuizen H, Kluft C. Improved assay conditions for automated antithrombin III determinations with the chromogenic substrate S-2238. Thromb Haemost. 1984;52(3):350-353.

Caution: Product has not been fully validated for medical applications. For research use only.

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