

DPTA NONOate

Chemical Properties

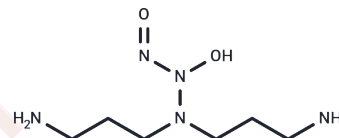
CAS No. : 146724-95-0

Formula: C₆H₁₇N₅O₂

Molecular Weight: 191.23

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DPTA NONOate is a NO donor. It spontaneously dissociates in a pH-dependent, first-order process with a half-life of three hours and five hours at 37°C and 22-25°C, pH 7.4, respectively, to liberate 2 moles of NO per mole of parent compound. [1][2]
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: Highly Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2293 mL	26.1465 mL	52.2931 mL
5 mM	1.0459 mL	5.2293 mL	10.4586 mL
10 mM	0.5229 mL	2.6147 mL	5.2293 mL
50 mM	0.1046 mL	0.5229 mL	1.0459 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hrabie, J.A., Klose, J.R., Wink, D.A., et al. New nitric oxide-releasing zwitterions derived from polyamines. The Journal of Organic Chemistry 58, 1472-1476 (1993).

Keefer, L.K., Nims, R.W., Davies, K.M., et al. "NONOates" (1-substituted diazen-1-ium-1,2-diolates) as nitric oxide donors: Convenient nitric oxide dosage forms. Methods in Enzymology 268, 281-293 (1996).

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