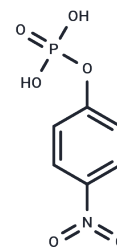


pNNP

Chemical Properties

CAS No. :	330-13-2
Formula:	C ₆ H ₆ NO ₆ P
Molecular Weight:	219.09
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	pNNP (Nitrophenylphosphate) can be used as a substrate for the PP2C assay. pNNP inhibits β -carbonic anhydrase and α -carbonate dehydrogenase, as well as H. pylori Helicobacter pylori. pNNP is a weakly active, tissue-nonspecific alkaline phosphatase modifier. pNNP has been shown to inhibit β -carbonic anhydrase and α -carbonate dehydrogenase.
Targets(IC50)	Carbonic Anhydrase

Solubility Information

Solubility	DMSO: 60 mg/mL (273.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5643 mL	22.8217 mL	45.6433 mL
5 mM	0.9129 mL	4.5643 mL	9.1287 mL
10 mM	0.4564 mL	2.2822 mL	4.5643 mL
50 mM	0.0913 mL	0.4564 mL	0.9129 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

- Culbreth PH, et al. 4-Nitrophenol in 4-nitrophenyl phosphate, a substrate for alkaline phosphatase, as measured by paired-ion high-performance liquid chromatography. Clin Chem. 1977;23(12):2288-2291.
- Innocenti A, et al. Paraoxon, 4-nitrophenyl phosphate and acetate are substrates of α - but not of β -, γ - and ζ - carbonic anhydrases. Bioorg Med Chem Lett. 2010;20(21):6208-6212.
- Jheng NY, et al. Co(I) complexes with a tetradentate phenanthroline-based PNNP ligand as a potent new metal-ligand cooperation platform. Dalton Trans. 2020;49(41):14592-14597.
- Schotes C, et al. Asymmetric Diels-Alder reactions of unsaturated beta-ketoesters catalyzed by chiral ruthenium PNNP complexes. J Am Chem Soc. 2010;132(11):3652-3653.

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