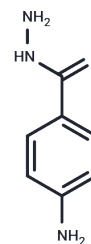


4-POBN

Chemical Properties

CAS No. :	5351-17-7
Formula:	C7H9N3O
Molecular Weight:	151.17
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	4-POBN (Myeloperoxidase Inhibitor 1) is a potent and irreversible inhibitor of myeloperoxidase (IC50 = 0.3 μ M). 4-POBN can be used in studies about subacute stroke.
Targets(IC50)	Glutathione Peroxidase

Solubility Information

Solubility	DMSO: 45 mg/mL (297.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (6.62 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6151 mL	33.0753 mL	66.1507 mL
5 mM	1.323 mL	6.6151 mL	13.2301 mL
10 mM	0.6615 mL	3.3075 mL	6.6151 mL
50 mM	0.1323 mL	0.6615 mL	1.323 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

- Arvadia P, et al. 4-Aminobenzoic acid hydrazide inhibition of microperoxidase-11: catalytic inhibition by reactive metabolites. Arch Biochem Biophys. 2011 Nov;515(1-2):120-6.
- Smith G, Lynch DE. Crystal structures of two erbium(III) complexes with 4-amino-benzoic acid and 4-chloro-3-nitro-benzoic acid. Acta Crystallogr E Crystallogr Commun. 2015 Nov 7;71(Pt 12):1457-61.
- Kettle AJ, et al. Inhibition of myeloperoxidase by benzoic acid hydrazides. Biochem J. 1995 Jun 1;308 (Pt 2)(Pt 2): 559-63.
- Forghani R, et al. Myeloperoxidase propagates damage and is a potential therapeutic target for subacute stroke. J Cereb Blood Flow Metab. 2015 Mar;35(3):485-93.

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