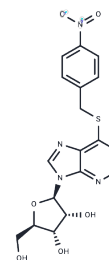


Nitrobenzylthioinosine

Chemical Properties

CAS No. :	38048-32-7
Formula:	C17H17N5O6S
Molecular Weight:	419.41
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	Nitrobenzylthioinosine (NBMPr) is an inhibitor of ENT1 transporter that binds to ENT1 transporter with high affinity.
Targets(IC50)	AChR, Adenosine Receptor

Solubility Information

Solubility	DMSO: 20.8 mg/mL (49.59 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: 2 mg/mL (4.77 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	2.3843 mL	11.9215 mL	23.843 mL
5 mM	0.4769 mL	2.3843 mL	4.7686 mL
10 mM	0.2384 mL	1.1922 mL	2.3843 mL
50 mM	0.0477 mL	0.2384 mL	0.4769 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

P J Marangos, et al. [3H]nitrobenzylthioinosine is a photoaffinity probe for adenosine uptake sites in brain. Eur J Pharmacol. 1982 Dec 3;85(3-4):359-60.

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Teng H, Wang Y, Sui X, et al. Gut microbiota-mediated nucleotide synthesis attenuates the response to neoadjuvant chemoradiotherapy in rectal cancer. Cancer Cell. 2022

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