

PSB-12379 ditriethylamine salt

Chemical Properties

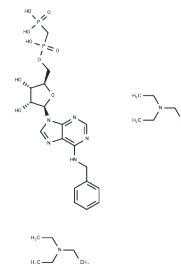
CAS No. :

Formula: C30H53N7O9P2

Molecular Weight: 717.73

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	PSB-12379 ditriethylamine salt, a nucleotide analogue, is a potent Ecto-5'-Nucleotidase (CD73) inhibitor with Kis of 9.03 nM (rat) and 2.21 nM (human).
Targets(IC50)	CD73
In vitro	Metabolism: Only a small percentage (23%) of PSB-12379 (10g) is metabolized under the applied conditions, while >77% of the compounds are recovered unchanged after a long incubation for 8 h. PSB-12379 (10g) is somewhat less stable, and 56% are metabolized within 8 h. Hydrolytic cleavage of the glycosidic bond, which is a typical phase I reaction of nucleosides and nucleotides, was observed as the main reaction[1].

Solubility Information

Solubility	DMSO: 11 mg/mL (15.33 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	1.3933 mL	6.9664 mL	13.9328 mL
5 mM	0.2787 mL	1.3933 mL	2.7866 mL
10 mM	0.1393 mL	0.6966 mL	1.3933 mL
50 mM	0.0279 mL	0.1393 mL	0.2787 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

Bhattacharai S, et al. α,β -Methylene-ADP (AOPCP) Derivatives and Analogues: Development of Potent and Selective ecto-5'-Nucleotidase (CD73) Inhibitors. J Med Chem. 2015 Aug 13;58(15):6248-63.

X-Ray Co-Crystal Structure Guides the Way to Subnanomolar Competitive Ecto-5 -Nucleotidase (CD73) Inhibitors for Cancer Immunotherapy Sanjay Bhattacharai. Adv. Therap. 2019, 2, 1900075.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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