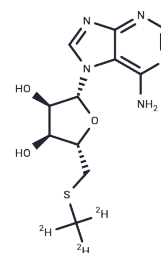


5'-Deoxy-5'-methylthioadenosine-D3

Chemical Properties

CAS No. :	174838-38-1
Formula:	C ₁₁ H ₁₅ N ₅ O ₃ S
Molecular Weight:	300.35
Storage:	Store at low temperature 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	5'-Deoxy-5'-methylthioadenosine-D3 is a stable, deuterium-labeled analogue of the endogenous nucleoside metabolite 5'-Deoxy-5'-methylthioadenosine (T8227) (MTA, CAS 2457-80-9). this compound retains the tumor cell proliferation inhibitory effects of the parent molecule and is primarily utilized as an internal standard in mass spectrometry-based metabolomic studies to quantify MTA levels in biological samples.
Targets(IC50)	Apoptosis,Others,Endogenous Metabolite,Parasite

Solubility Information

Solubility	H ₂ O: 0.8 mg/mL (2.66 mM),Sonication is recommended. DMF: 2 mg/mL (6.66 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	3.3294 mL	16.6472 mL	33.2945 mL
5 mM	0.6659 mL	3.3294 mL	6.6589 mL
10 mM	0.3329 mL	1.6647 mL	3.3294 mL
50 mM	0.0666 mL	0.3329 mL	0.6659 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

Adams KN, et al. Verapamil, and its metabolite norverapamil, inhibit macrophage-induced, bacterial efflux pump-mediated tolerance to multiple anti-tubercular drugs. J Infect Dis. 2014 Aug 1;210(3):456-66.

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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