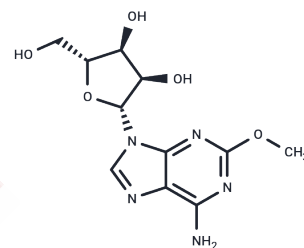


Spongosine

Chemical Properties

CAS No. :	24723-77-1
Formula:	C ₁₁ H ₁₅ N ₅ O ₅
Molecular Weight:	297.27
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	Spongosine (2-Methoxy adenosine) is a pivotal intercellular signal transmitter, which has demonstrated a diverse bioactivity profile including anti-inflammatory activity and analgesic and vasodilation properties. Spongosine is a natural product isolated from Marine organisms, and first isolated from the marine sponge <i>Cryptotethia crypta</i> in 1950
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others
In vitro	Spongosine showed the greatest anti-inflammatory effects with a ~60% reduction in nitric oxide production at 3 µg/mL[1].

Solubility Information

Solubility	DMSO: 2.98 mg/mL (10.02 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	3.3639 mL	16.8197 mL	33.6395 mL
5 mM	0.6728 mL	3.3639 mL	6.7279 mL
10 mM	0.3364 mL	1.682 mL	3.3639 mL
50 mM	0.0673 mL	0.3364 mL	0.6728 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

Bertin MJ, et al. Spongiosine production by a *Vibrio harveyi* strain associated with the sponge *Tectitethya crypta*. *J Nat Prod*. 2015 Mar 27;78(3):493-9.

Huang, et al. Marine Nucleosides: Structure, Bioactivity, Synthesis and Biosynthesis. *Mar. Drugs* 2014, 12, 5817-5838.

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