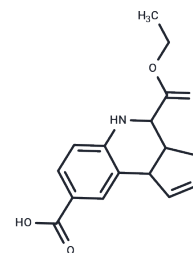


DAM-IN-1

Chemical Properties

CAS No. :	935279-95-1
Formula:	C ₁₆ H ₁₇ N ₁ O ₄
Molecular Weight:	287.31
Storage:	Keep away from direct sunlight 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	DAM-IN-1 is a selective bacterial DNA Adenine Methyltransferase (Dam) inhibitor (IC ₅₀ = 48 μM). It inhibits bacterial growth (MIC = 35 μM), used for antibacterial research.
Targets(IC ₅₀)	Antibacterial
In vitro	DAM-IN-1 inhibited T4 phage Dam methyltransferase (IC ₅₀ =48 μM) and inhibited <i>Caulobacter crescentus</i> growth (MIC=35 μM)[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (278.44 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	3.4806 mL	17.4028 mL	34.8056 mL
5 mM	0.6961 mL	3.4806 mL	6.9611 mL
10 mM	0.3481 mL	1.7403 mL	3.4806 mL
50 mM	0.0696 mL	0.3481 mL	0.6961 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

Chen YQ, et al. Wnt pathway activator TWS119 enhances the proliferation and cytolytic activity of human $\gamma\delta$ T cells against colon cancer. Exp Cell Res. 2017 Nov 16. pii: S0014-4827(17)30587-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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