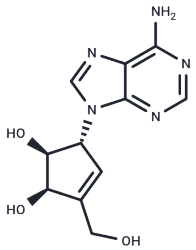
Data Sheet (Cat.No.T84494)

TargetMol

(-)-Neplanocin A

Chemical Properties



CAS No. : 72877-50-0

Formula: C11H13N5O3

Molecular Weight: 263.3

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	S-Adenosylhomocysteine (SAH) hydrolase is responsible for the reversible hydrolysis of SAH into adenosine and homocysteine. Inhibition of this enzyme leads to the accumulation of SAH within cells, thereby increasing the SAH to S-adenosylmethionine (SAM) ratio and subsequently inhibiting SAM-dependent methyltransferases. (–)-Neplanocin A, a potent and irreversible inhibitor of SAH hydrolase (Ki= 8.39 nM), exhibits significant antitumor activity against mouse leukemia L1210 cells and holds broad-spectrum antiviral properties. Its efficacy notably surpasses that of the reversible inhibitor 3-deazaneplanocin, especially in combating vesicular stomatitis, evidencing a higher potency with ID50 values of 0.07 μg/ml for Neplanocin A versus 0.3 μg/ml for 3-deazaneplanocin.
Targets(IC50)	Others,Antibiotic,Virus Protease

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7979 mL	18.9897 mL	37.9795 mL
5 mM	0.7596 mL	3.7979 mL	7.5959 mL
10 mM	0.3798 mL	1.899 mL	3.7979 mL
50 mM	0.076 mL	0.3798 mL	0.7596 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.

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