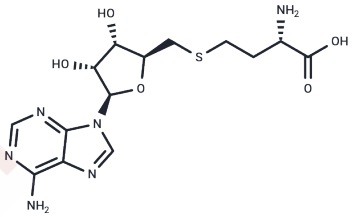
Data Sheet (Cat.No.TQ0208)

TargetMol

SAH

Chemical Properties



CAS No. : 979-92-0

Formula: C14H20N6O5S

Molecular Weight: 384.41

Storage: Store under nitrogen,Store at low temperature,Keep away from direct sunlight
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	SAH (SAH (S-Adenosylhomocysteine)) is an inhibitor for the METTL3-METTL14 heterodimer complex (METTL3-14, IC50: 0.9 μM).
Targets(IC50)	Endogenous Metabolite
In vitro	METTL3-14 complex was treated with SAH (0-100 μM) and the inhibitory activity was detected using METTL3-14 Assay. **RESULTS**: SAH showed a strong inhibitory effect on METTL3-14 activity with an IC50 value of 0.9±0.1 μM. [1]

Solubility Information

Solubility	DMSO: 63.1 mg/mL (164.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 12.5 mg/mL (32.52 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6014 mL	13.0069 mL	26.0139 mL
5 mM	0.5203 mL	2.6014 mL	5.2028 mL
10 mM	0.2601 mL	1.3007 mL	2.6014 mL
50 mM	0.052 mL	0.2601 mL	0.5203 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

Li F, et al. A Radioactivity-Based Assay for Screening Human m6A-RNA Methyltransferase, METTL3-METTL14 Complex, and Demethylase ALKBH5. J Biomol Screen. 2016 Mar;21(3):290-7.
Li F, et al. A Radioactivity-Based Assay for Screening Human m6A-RNA Methyltransferase, METTL3-METTL14 Complex, and Demethylase ALKBH5. Biomol Screen. 2016 Mar;21(3):290-7.

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