Data Sheet (Cat.No.T36572)

TargetMol

N6-Methyladenine

Chemical Properties

CAS No. : 443-72-1

Formula: C6H7N5

Molecular Weight: 149.15

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	N6-Methyladenine (6-(Methylamino)Purine) is a modified purine commonly found in genomes of prokaryotes, protists, and plants. N6-methyladenine affects diverse DNA functions, including replication, repair, and expression.
Targets(IC50)	Nucleoside Antimetabolite/Analog,Endogenous Metabolite,DNA/RNA Synthesis

Solubility Information

Solubility	Ethanol: 5 mg/mL (33.52 mM),Sonication is recommended. DMF: 2 mg/mL (13.41 mM),Sonication is recommended. PBS (pH 7.2): 2 mg/mL (13.41 mM),Sonication is recommended. DMSO: 1 mg/mL (6.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (6.7 mM),Sonication is recommended. *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	6.7047 mL	33.5233 mL	67.0466 mL
5 mM	1.3409 mL	6.7047 mL	13.4093 mL
10 mM	0.6705 mL	3.3523 mL	6.7047 mL
50 mM	0.1341 mL	0.6705 mL	1.3409 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

Yang J, et al. N6-methyladenine RNA modification and cancer. Oncol Lett. 2020 Aug;20(2):1504-1512.

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