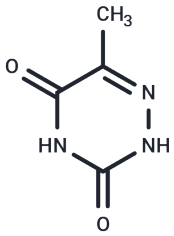
Data Sheet (Cat.No.T8648)

TargetMol

6-AZATHYMINE

Chemical Properties



CAS No. :	932-53-6
Formula:	C4H5N3O2
Molecular Weight:	127.1
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	6-azathymine is a potent inhibitors of D-3-aminoisobutyrate-pyruvate aminotransferase. 6-Azauracil acted as a competitive inhibitor with respect to beta-alanine, and was an uncompetitive inhibitor with respect to pyruvic acid with a Ki of approximately 8.9 mM.
Targets(IC50)	Nucleoside Antimetabolite/Analog,Antibacterial,DNA/RNA Synthesis,Influenza Virus

Solubility Information

Solubility	DMSO: 27.5 mg/mL (216.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.8678 mL	39.3391 mL	78.6782 mL
5 mM	1.5736 mL	7.8678 mL	15.7356 mL
10 mM	0.7868 mL	3.9339 mL	7.8678 mL
50 mM	0.1574 mL	0.7868 mL	1.5736 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

N Tamaki, et al. Purification, Characterization and Inhibition of D-3-aminoisobutyrate Aminotransferase From the Rat Liver. Eur J Biochem. 1990 Apr 20;189(1):39-45.

R A GAITO, et al. Studies on the Metabolism of Thymine and 6-azathymine. Biochem Pharmacol. Apr-May 1962;11: 323-36.

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