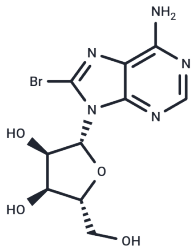
Data Sheet (Cat.No.TNU0791)

TargetMol

8-Bromoadenosine

Chemical Properties



CAS No. : 2946-39-6

Formula: C10H12BrN5O4

Molecular Weight: 346.14

Storage: 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	8-Bromoadenosine is an adenosine derivative in which the hydrogen atom on the amino group is replaced by a bromine atom for the synthesis of nucleotides with specific biological activities. 8-Br-Adenosine exhibits a variety of biological activities in vitro, including inhibition of mitochondrial membrane potential, cytoplasmic Ca^{2+} levels, and RNA and protein synthesis.
Targets(IC50)	Nucleoside Antimetabolite/Analog

Solubility Information

Solubility	DMSO: 80 mg/mL (231.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.889 mL	14.445 mL	28.890 mL
5 mM	0.5778 mL	2.889 mL	5.778 mL
10 mM	0.2889 mL	1.4445 mL	2.889 mL
50 mM	0.0578 mL	0.2889 mL	0.5778 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

Man S, et al. Potential and promising anticancer drugs from adenosine and its analogs. Drug Discov Today. 2021 Jun;26(6):1490-1500.

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