Data Sheet (Cat.No.TNU0052)

TargetMol

Nebularine

Chemical Properties

CAS No. : 550-33-4

Formula: C10H12N4O4

Molecular Weight: 252.227

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	Nebularine (9-(beta-D-Ribofuranosyl)-9H-purine) is a purine nucleoside analog with a broad spectrum of antitumor activity, targeting inert lymphoid malignancies and inducing apoptosis.The anticancer mechanism of Nebularine is dependent on the inhibition of DNA synthesis.
Targets(IC50)	Apoptosis,Nucleoside Antimetabolite/Analog,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 55.00 mg/mL (218.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9646 mL	19.8232 mL	39.6464 mL
5 mM	0.7929 mL	3.9646 mL	7.9293 mL
10 mM	0.3965 mL	1.9823 mL	3.9646 mL
50 mM	0.0793 mL	0.3965 mL	0.7929 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

Rahman MS, et al. Nebularine (9-2'-deoxy-beta-D-ribofuranosylpurine) has the template characteristics of adenine in vivo and in vitro. Mutat Res. 1997 Jul 3;377(2):263-8.

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