

SID 3712249

Chemical Properties

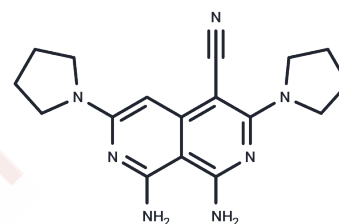
CAS No. : 522606-67-3

Formula: C₁₇H₂₁N₇

Molecular Weight: 323.4

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	SID 3712249 is an inhibitor of the biogenesis of microRNA-544 (miR-544).
Targets(IC50)	Apoptosis,Others,MicroRNA
In vitro	MiR-544 represses expression of mTOR, promoting tumor cell survival in a hypoxic environment. Inhibition of miR-544 processing with MiR-544 Inhibitor 1 caused apoptosis in triple-negative breast cancer cells in response to hypoxic stress, sensitized their response to 5-fluorouracil, and blocked their growth after transplantation into immunodeficient mice. SID 3712249 (MiR-544 Inhibitor 1) is believed to bind directly to the precursor miRNA, blocking the production of the mature microRNA and resulting in decreased miR-544, HIF-1 α , and ATM transcripts. MiR-544 Inhibitor 1 was as selective and 25-fold more potent than a 2'-O-methyl RNA antagomir.

Solubility Information

Solubility	DMSO: 16.67 mg/mL (51.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0921 mL	15.4607 mL	30.9215 mL
5 mM	0.6184 mL	3.0921 mL	6.1843 mL
10 mM	0.3092 mL	1.5461 mL	3.0921 mL
50 mM	0.0618 mL	0.3092 mL	0.6184 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

Zhi Q, et al. Oncogenic miR-544 is an important molecular target in gastric cancer. *Anticancer Agents Med Chem.* 2013 Feb;13(2):270-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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