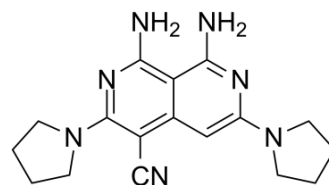


SID 3712249

Cat. No.:	HY-19731		
CAS No.:	522606-67-3		
Molecular Formula:	C ₁₇ H ₂₁ N ₇		
Molecular Weight:	323.4		
Target:	MicroRNA; Apoptosis		
Pathway:	Epigenetics; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (51.55 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SID 3712249 (MiR-544 Inhibitor 1) is an inhibitor of the biogenesis of microRNA-544 (miR-544). Target: MiR-544. 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 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.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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