PRMT5-IN-31

Cat. No.: HY-155050

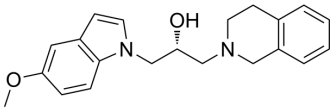
Molecular Formula: $C_{21}H_{24}N_2O_2$

Molecular Weight: 336.43

Target: Apoptosis; Histone Methyltransferase

Pathway: Apoptosis; Epigenetics

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (148.62 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9724 mL	14.8619 mL	29.7239 mL
	5 mM	0.5945 mL	2.9724 mL	5.9448 mL
	10 mM	0.2972 mL	1.4862 mL	2.9724 mL

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

BIOLOGICAL ACTIVITY

Description

PRMT5-IN-31 (Compound 3m) is a selective PRMT5 inhibitor (IC_{50}: 0.31 μM). PRMT5-IN-31 up-regulates hnRNP E1 protein level. PRMT5-IN-31 occupies the substrate site of PRMT5 and forms essential interactions with amino acid residues. PRMT5-IN-31 has antiproliferative effects against A549 cells by inducing apoptosis and inhibiting cell migration. PRMT5-IN-31 has high metabolic stability on human liver microsomes ($T_{1/2}$: 132.4 min)[1].

IC_{50} & Target

0.31 μM (PRMT5)[1]

REFERENCES

[1]. Chu WH, et al. Discovery of tetrahydroisoquinolineindole derivatives as first dual PRMT5 inhibitors/hnRNP E1 upregulators: Design, synthesis and biological evaluation. Eur J Med Chem. 2023 Oct 5;258:115625.

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

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