

PR5-LL-CM01

Chemical Properties

CAS No. : 1005307-86-7

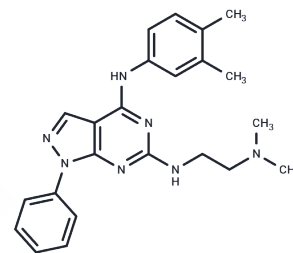
Formula: C23H27N7

Molecular Weight: 401.51

Keep away from direct sunlight

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	PR5-LL-CM01 is an effective epigenetic modulator and histone deacetylase (HDAC) inhibitor. It alters chromatin structure and activates tumor suppressor gene transcription by increasing histone acetylation, showing significant anti-proliferative activity in solid tumor models.
Targets(IC50)	HDAC
In vitro	PR5-LL-CM01 potently inhibits PDAC and CRC cell growth by targeting PRMT5 to block NF-kB activation [1].
In vivo	In NSG xenograft models, PR5-LL-CM01 (20 mg/kg i.p.) significantly inhibits PANC1 and HT29 tumor growth [1].

Solubility Information

Solubility	DMSO: 8 mg/mL (19.92 mM),, when pH is adjusted to 3 with HCl. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4906 mL	12.453 mL	24.906 mL
5 mM	0.4981 mL	2.4906 mL	4.9812 mL
10 mM	0.2491 mL	1.2453 mL	2.4906 mL
50 mM	0.0498 mL	0.2491 mL	0.4981 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

Prabhu L, Wei H, Chen L, Demir Ö, Sandusky G, Sun E, Wang J, Mo J, Zeng L, Fishel M, Safa A, Amaro R, Korc M, Zhang ZY, Lu T. Adapting AlphaLISA high throughput screen to discover a novel small-molecule inhibitor targeting protein arginine methyltransferase 5 in pancreatic and colorectal cancers. *Oncotarget*. 2017 May 23. doi: 10.18632/oncotarget.18102. [Epub ahead of print] PubMed PMID: 28591716.

Beharry S, Heinrich M. Is the hype around the reproductive health claims of maca (*Lepidium meyenii* Walp.) justified? *J Ethnopharmacol*. 2018 Jan 30;211:126-170. doi: 10.1016/j.jep.2017.08.003. Epub 2017 Aug 12. Review.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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