

MM-401

Chemical Properties

CAS No. : 1442106-10-6

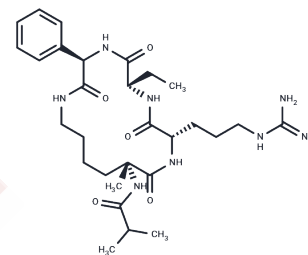
Formula: C₂₉H₄₆N₈O₅

Molecular Weight: 586.73

Keep away from moisture

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	MM-401 is a specific inhibitor of histone H3K4 methyltransferase MLL1 activity that acts by reprogramming mouse epiblast stem cells to naive pluripotency.
Targets(IC50)	Apoptosis,Histone Methyltransferase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7044 mL	8.5218 mL	17.0436 mL
5 mM	0.3409 mL	1.7044 mL	3.4087 mL
10 mM	0.1704 mL	0.8522 mL	1.7044 mL
50 mM	0.0341 mL	0.1704 mL	0.3409 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

Zhang H, Dou Y. Reprogram Murine Epiblast Stem Cells by Epigenetic Inhibitors. *Bio Protoc.* 2017 Mar 5;7(5). pii: e2168. doi: 10.21769/BioProtoc.2168. PubMed PMID: 29082293; PubMed Central PMCID: PMC5659616.

Karatas H, Li Y, Liu L, Ji J, Lee S, Chen Y, Yang J, Huang L, Bernard D, Xu J, Townsend EC, Cao F, Ran X, Li X, Wen B, Sun D, Stuckey JA, Lei M, Dou Y, Wang S. Discovery of a Highly Potent, Cell-Permeable Macrocyclic Peptidomimetic (MM-589) Targeting the WD Repeat Domain 5 Protein (WDR5)-Mixed Lineage Leukemia (MLL) Protein-Protein Interaction. *J Med Chem.* 2017 Jun 22;60(12):4818-4839. doi: 10.1021/acs.jmedchem.6b01796. Epub 2017 Jun 12. PubMed PMID: 28603984.

Vedadi M, Blazer L, Eram MS, Barsyte-Lovejoy D, Arrowsmith CH, Hajian T. Targeting human SET1/MLL family of proteins. *Protein Sci.* 2017 Apr;26(4):662-676. doi: 10.1002/pro.3129. Epub 2017 Mar 6. Review. PubMed PMID: 28160335; PubMed Central PMCID: PMC5368065.

Muller S, Nayak A. Inhibition of MLL1 histone methyltransferase brings the developmental clock back to naïve pluripotency. *Stem Cell Investig.* 2016 Oct 20;3:58. eCollection 2016. PubMed PMID: 27868040; PubMed Central PMCID: PMC5104571.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481