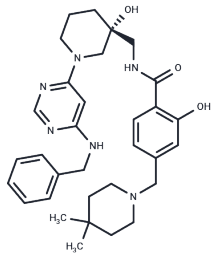
Data Sheet (Cat.No.T37448)

TargetMol

UZH1a

Chemical Properties



CAS No. : 2813577-78-3

Formula: C32H42N6O3

Molecular Weight: 558.71

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	UZH1a is a potent and selective inhibitor of METTL3, with an IC50 of 280 nM. It serves as a tool for the epitranscriptomic modulation of cellular processes, exhibits antitumor activity, and functions as a chemical probe for the study of METTL3[1].
Targets(IC50)	Apoptosis,Others
In vitro	UZH1a (2.5-160 μM; 72 h) inhibits the growth of MOLM-13, HEK293T, and U2Os cells, with IC50s of 11 μM, 67 μM, and 87 μM, respectively[1].UZH1a (2.5-100 μM; 16 h) reduces m6A methylation level in mRNA from MOLM-13 cells in a dose-dependent manner (IC50=4.6 μM)[1].UZH1a (40 μM; 16 h) reduces m6A methylation level in mRNA from MOLM-13, HEK293T, and U2Os cells[1].UZH1a (20 μM; 16 h) increases apoptosis and leads to cell cycle arrest in MOLM-13 cells[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (143.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 5 mg/mL (8.95 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7898 mL	8.9492 mL	17.8984 mL
5 mM	0.358 mL	1.7898 mL	3.5797 mL
10 mM	0.179 mL	0.8949 mL	1.7898 mL
50 mM	0.0358 mL	0.179 mL	0.358 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

Moroz-Omori EV, et, al. METTL3 inhibitors for epitranscriptomic modulation of cellular processes. bioRxiv. 2020 Oct 13.