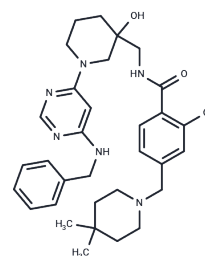


## UZH1

## Chemical Properties

CAS No. :	2925713-02-4
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	UZH1 is a racemate of UZH1a and UZH1b. UZH1a is a potent and selective METTL3 inhibitor with an IC50 of 280 nM, while UZH1b (IC50=28 μM) is essentially inactive. UZH1 can be used for epitranscriptomic modulation of cellular processes, has antitumor activity, and serves as a chemical probe for studying 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. UZH1b (2.5-160 μM; 72 h) inhibits the growth of the same cells, with IC50s of 78 μM, 79 μM, and 93 μM, respectively[1]. UZH1a (2.5-100 μM; 16 h) reduces m6A methylation levels in mRNA from cells dose-dependently (IC50=4.6 μM), whereas UZH1b is less active at concentrations up to 100 μM in MOLM-13 cells. UZH1a (40 μM; 16 h) reduces m6A methylation levels in mRNA from MOLM-13, HEK293T, and U2Os cells. Furthermore, UZH1a (20 μM; 16 h) increases apoptosis and induces cell cycle arrest in MOLM-13 cells[1].

## Solubility Information

Solubility	DMSO: 125 mg/mL (223.73 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. <i>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.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

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