

UZH1

Chemical Properties

CAS No. : 2925713-02-4
Formula:
Molecular Weight:
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	UZH1 is a racemate of UZH1a and UZH1b. UZH1a is a potent and selective METTL3 inhibitor, with an IC ₅₀ of 280 nM. UZH1b (IC ₅₀ =28 μM) is essentially inactive. UZH1 can be used for epitranscriptomic modulation of cellular processes. UZH1 has antitumor activity. UZH1 also can be used as a chemical probe for studying METTL3[1].
In vitro	UZH1a (2.5-160 μM; 72 h) inhibits the growth of MOLM-13, HEK293T, and U2Os cells, with IC ₅₀ s of 11 μM, 67 μM, and 87 μM, respectively[1]. UZH1b (2.5-160 μM; 72 h) inhibits the growth of MOLM-13, HEK293T, and U2Os cells, with IC ₅₀ s of 78 μM, 79 μM, and 93 μM, respectively[1]. UZH1a (2.5-100 μM; 16 h) reduces m6A methylation level in mRNA from cells in a dose-dependent manner (IC ₅₀ =4.6 μM), while UZH1b is less active at concentrations up to 100 μM in MOLM-13 cells[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: 125 mg/mL (223.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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