

Product Data Sheet

Product Name: UZH1
Cat. No.: GC62457

Chemical Properties

Cas. No.

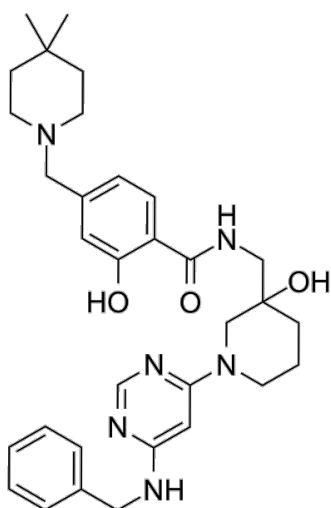
Formula $C_{32}H_{42}N_6O_3$ M.Wt 558.71

Solubility DMSO : 125 mg/mL (223.73 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

UZH1 is a racemate of UZH1a and UZH1b. UZH1a is a potent and selective METTL3 inhibitor, with an IC₅₀ of 280 nM. UZH1b (IC₅₀=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].

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]. UZH1b (2.5-160 μM; 72 h) inhibits the growth of MOLM-13,

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HEK293T, and U2Os cells, with IC50s of 78 μ M, 79 μ M, and 93 μ M, respectively[1]. UZH1a (2.5-100 μ M; 16 h) reduces m6A methylation level in mRNA from cells in a dose-dependent manner (IC50=4.6 μ M), while UZH1b is less active at concentrations up to 100 μ M in MOLM-13 cells[1]. UZH1a (40 μ M; 16 h) reduces m6A methylation level in mRNA from MOLM-13, HEK293T, and U2Os cells[1]. UZH1a (20 μ M; 16 h) increases apoptosis and leads to cell cycle arrest in MOLM-13 cells[1].

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

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