

UZH1 biochemical

UZH1

CATALOG #
AAA227299

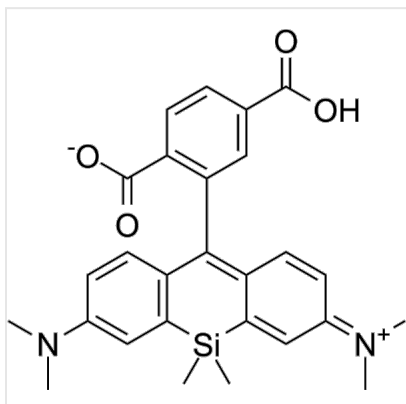
PRODUCT SYNONYMS

UZH1; UZH1 biochemical

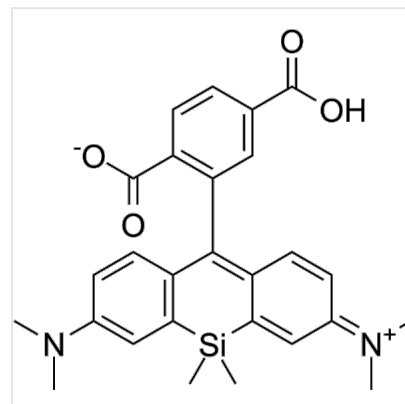
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	DMSO: 125 mg/mL (223.73 mM), Need ultrasonic <1mg/ml refers to the product slightly soluble or insoluble
In vitro	UZH1a (2.5-160 uM; 72 h) inhibits the growth of MOLM-13, HEK293T, and U2Os cells, with IC50s of 11 uM, 67 uM, and 87 uM, respectively[1].UZH1b (2.5-160 uM; 72 h) inhibits the growth of MOLM-13, HEK293T, and U2Os cells, with IC50s of 78 uM, 79 uM, and 93 uM, respectively[1].UZH1a (2.5-100 uM; 16 h) reduces m6A methylation level in mRNA from cells in a dose-dependent manner (IC50=4.6 uM), while UZH1b is less active at concentrations up to 100 uM in MOLM-13 cells[1].UZH1a (40 uM; 16 h) reduces m6A methylation level in mRNA from MOLM-13, HEK293T, and U2Os cells[1].UZH1a (20 uM; 16 h) increases apoptosis and leads to cell cycle arrest in MOLM-13 cells[1].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
SiR-COOH, CAS 1418275-26-9



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ADDITIONAL INFORMATION

Related Product Information for UZH1 biochemical

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 uM) 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].

References

1. Eunha Kim, et al. Red Si-rhodamine drug conjugates enable imaging in GFP cells. Chem Commun (Camb). 2014 May 4;50(34):4504-7.
2. Miles A Miller, et al. Near infrared imaging of Mer tyrosine kinase (MERTK) using MERi-SiR reveals tumor associated macrophage uptake in metastatic disease. Chem Commun (Camb). 2017 Dec 19;54(1):42-45. <https://pubmed.ncbi.nlm.nih.gov/29185561>

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/uzh1/227299>