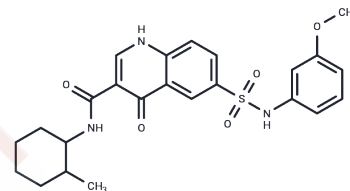


MTH1-IN-2

Chemical Properties

CAS No. :	901044-91-5
Formula:	C ₂₄ H ₂₇ N ₃ O ₅ S
Molecular Weight:	469.55
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	MTH1-IN-2 is an inhibitor of MutT homolog 1 (MTH1), with anti-tumor activity.
Targets(IC50)	DNA/RNA Synthesis,MTH1
In vitro	MTH1 is an inhibitors and for use in the treatment or prevention of cancer.The enzyme human MTH1 is a 2-hydroxy-dATP diphosphatase.MTH1 specifically assists RAS-induced tumors in preventing tumor- suppressive effects such as senescence whilst enabling maintenance and progression of the tumor.MTH1 inhibition helps impairing tumor growth by abrogating mitogenic signaling, epithelial-mesenchymal transition (EMT), a hallmark of progressing and aggressive tumors, anoikis inhibition and PI3K/Akt-mediated pro-survival signaling.MTH1 inhibitors induce oxidative DNA lesions [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1297 mL	10.6485 mL	21.297 mL
5 mM	0.4259 mL	2.1297 mL	4.2594 mL
10 mM	0.213 mL	1.0648 mL	2.1297 mL
50 mM	0.0426 mL	0.213 mL	0.4259 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

Kilian Huber. Oxoquinoline derivatives as mth1 inhibitors for the therapy of cancer. WO2016135138A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481