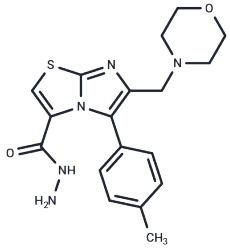
Data Sheet (Cat.No.T61486)

TargetMol

DHFR-IN-4

Chemical Properties



CAS No. : 2820126-49-4

Formula: C18H21N5O2S

Molecular Weight: 371.46

Storage: The compound is unstable in solution. Please use soon
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	DHFR-IN-4 is a potent dihydrofolate reductase (DHFR) inhibitor with anti-tumor activity, which also inhibits EGFR and HER2, and is useful for studying pancreatic cancer.
Targets(IC50)	EGFR,DHFR
In vitro	Remarkable broad-spectrum cytotoxic potency against HepG2, MCF-7, HCT-116, PC3, and HeLa is shown by DHFR-IN-4 (compound 42) at concentrations ranging from 0 to 100 μM over a 72-hour period[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6921 mL	13.4604 mL	26.9208 mL
5 mM	0.5384 mL	2.6921 mL	5.3842 mL
10 mM	0.2692 mL	1.346 mL	2.6921 mL
50 mM	0.0538 mL	0.2692 mL	0.5384 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

Sabry MA, et al. New thiazole-based derivatives as EGFR/HER2 and DHFR inhibitors: Synthesis, molecular modeling simulations and anticancer activity. Eur J Med Chem. 2022 Aug 10;241:114661.

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