Data Sheet (Cat.No.T72879)

TargetMol

Misetionamide

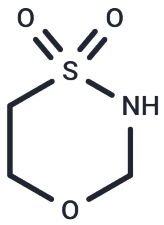
Chemical Properties

CAS No. : 856785-75-6

Formula: C3H7NO3S

Molecular Weight: 137.16

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	Misetionamide is an orally active oxathiazin-like compound that functions as a glyceraldehyde-3-phosphate dehydrogenase (GAPDH) inhibitor with antineoplastic activity, Misetionamide is widely used in cancer research to investigate metabolic reprogramming, glycolytic dependency, and metabolism-targeted anticancer therapeutic strategies.
Targets(IC50)	Dehydrogenase
In vitro	In TNBC cell lines, Misetionamide (0-2000 μM) induces cell death in a dose- and time-dependent manner (24-72 h) and inhibits cell proliferation within 12 hours. Treatment with Misetionamide (0-1000 μM, 18 h) triggers both apoptosis and necrosis [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (583.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.2908 mL	36.4538 mL	72.9076 mL
5 mM	1.4582 mL	7.2908 mL	14.5815 mL
10 mM	0.7291 mL	3.6454 mL	7.2908 mL
50 mM	0.1458 mL	0.7291 mL	1.4582 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

International Nonproprietary Names for Pharmaceutical Substances (INN). WHO Drug Information. 2022. 36(2): 337.

Jinih M, et al. Evaluation of the Cytotoxic Effects of the Novel Antineoplastic Agent 1,4,5-Oxathiazinane-4,4-dioxide on Triple Negative Breast Cancer Cells. Anticancer Res. 2021 May;41(5):2247-2256.

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