

GRP78-IN-3

Chemical Properties

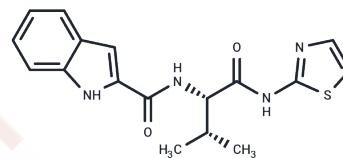
CAS No. : 2707510-30-1

Formula: C17H18N4O2S

Molecular Weight: 342.42

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	GRP78-IN-3, a potent small-molecule-competitive inhibitor of Hsp70 substrate binding and is a selective Grp78 (HSPA5) inhibitor with an IC50 of 0.59 μ M. GRP78-IN-3 is 7-fold selective for HspA5 compared to HspA9 (IC50 of 4.3 μ M) and >20-fold selective for HspA5 compared to HspA2 (IC50 of 13.9 μ M).
Targets(IC50)	HSP
In vitro	GRP78-IN-3 (0.1-100 μ M) shows more potent inhibition effects in a spheroid tumor model (U251 glioblastoma cells and H520 lung cancer cells) [1].

Solubility Information

Solubility	DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9204 mL	14.602 mL	29.2039 mL
5 mM	0.5841 mL	2.9204 mL	5.8408 mL
10 mM	0.292 mL	1.4602 mL	2.9204 mL
50 mM	0.0584 mL	0.292 mL	0.5841 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

Andrew J Ambrose, et al. Discovery and Development of a Selective Inhibitor of the ER Resident Chaperone Grp78. J Med Chem. 2022 Dec 14.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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