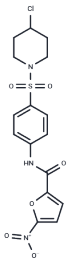
Data Sheet (Cat.No.T22104)

TargetMol

ML-291

Chemical Properties



CAS No. : 1523437-16-2

Formula: C16H16ClN3O6S

Molecular Weight: 413.83

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	ML-291 is a potent inducer of the Unfolded Protein Response (UPR). It triggers apoptosis via the PERK/eIF2α/CHOP arm, used for solid tumor and leukemia research.
Targets(IC50)	PERK
In vitro	ML-291 selectively activates the PERK/eIF2α/CHOP pathway (EC50 = 762 nM), inducing ER stress apoptosis and cytotoxicity in various cancer cells [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (96.66 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4165 mL	12.0823 mL	24.1645 mL
5 mM	0.4833 mL	2.4165 mL	4.8329 mL
10 mM	0.2416 mL	1.2082 mL	2.4165 mL
50 mM	0.0483 mL	0.2416 mL	0.4833 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

Coll J, Tandrón Y A. neo-Clerodane diterpenoids from Ajuga: structural elucidation and biological activity[J]. Phytochemistry Reviews, 2008, 7(1): 25-49.

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