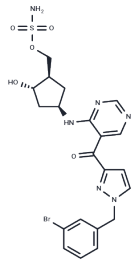
Data Sheet (Cat.No.T16102)

TargetMol

ML-792

Chemical Properties



CAS No. : 1644342-14-2

Formula: C21H23BrN6O5S

Molecular Weight: 551.41

Storage: Store at low temperature
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-792 is a specific small ubiquitin-like modifier activating enzyme (SUMO) inhibitor. ML-792 selectively inhibits SAE/SUMO1 and SAE/SUMO2 with IC50 of 3 and 11 nM.
Targets(IC50)	E1/E2/E3 Enzyme
In vitro	**METHODS**: Cell lines (MDA-MB-468, HCT116,Colo-205, MDA-MB-231, A375) were treated with ML-792 (1 nM -10 μM) for 72 hours. Cell viability was determined using the CellTiter-Glo viability assay. **RESULTS** ML-792 showed a dose-dependent viability effect in all cell lines tested, with an EC50 value of 0.06 μM in MDA-MB-468 cells and 0.45 μM in A375 cells. [1]

Solubility Information

Solubility	DMSO: 255 mg/mL (462.45 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (9.07 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8135 mL	9.0677 mL	18.1353 mL
5 mM	0.3627 mL	1.8135 mL	3.6271 mL
10 mM	0.1814 mL	0.9068 mL	1.8135 mL
50 mM	0.0363 mL	0.1814 mL	0.3627 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

He X, et al. Probing the roles of SUMOylation in cancer cell biology by using a selective SAE inhibitor. Nat Chem Biol. 2017 Nov;13(11):1164-1171.

Meng Z, Bian X, Ma L, et al.UBC9 stabilizes PFKFB3 to promote aerobic glycolysis and proliferation of glioblastoma cells.The International Journal of Biochemistry & Cell Biology.2023, 165: 106491.