

NMS-859

Chemical Properties

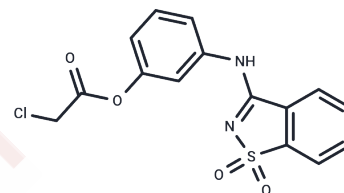
CAS No. : 1449236-96-7

Formula: C₁₅H₁₂ClN₃O₃S

Molecular Weight: 349.79

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	NMS-859 is an effective and covalent inhibitor of valosin-containing protein (VCP)/p97 with IC ₅₀ s of 0.37 μM and 0.36 μM for wild-type VCP in the presence of 60 μM and 1 mM ATP in cells, respectively.
Targets(IC ₅₀)	Others,p97
In vitro	NMS-859 suppresses the cell proliferation with IC ₅₀ s of 3.0 μM and 3.5 μM in HeLa and HCT116 cell lines, respectively. NMS-859 shows weak inhibitory activity against VCPC522T[1].

Solubility Information

Solubility	DMSO: 3.5 mg/mL (10.01 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: 1 mg/mL (2.86 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8589 mL	14.2943 mL	28.5886 mL
5 mM	0.5718 mL	2.8589 mL	5.7177 mL
10 mM	0.2859 mL	1.4294 mL	2.8589 mL
50 mM	0.0572 mL	0.2859 mL	0.5718 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

Magnaghi P, et al. Covalent and allosteric inhibitors of the ATPase VCP/p97 induce cancer cell death. Nat Chem Biol. 2013 Sep;9(9):548-56.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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