
Product Data Sheet

Product Name: NMS-859
Cat. No.: GC32874

Chemical Properties

Cas. No. 1449236-96-7

SMILES O=S1(C2=CC=CC=C2C(NC3=CC(NC(CCl)=O)=CC=C3)=N1)=O

Formula C15H12ClN3O3S M.Wt 349.79

Solubility DMSO : ≥ 42 mg/mL (120.07 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Protocol**Cell experiment:**

Cells are seeded at 1,600 cells per well in 384-well white clear-bottom plates. Twenty-four hours after seeding, cells are treated with NMS-859 (eight dilution points, in duplicate) and incubated for an additional 72 h at 37°C under a 5% CO₂ atmosphere. Cells are then lysed, and the ATP content in each well is determined using a thermostable firefly luciferase-based assay as a measure of cell viability. IC₅₀ values are calculated using the percentage of growth of treated cells versus the untreated control[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

[1]. 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.

Background

NMS-859 is a potent, covalent VCP (p97) inhibitor, with IC₅₀s of 0.37 and 0.36 μM for wild-type VCP in the presence of 60 μM and 1 mM ATP in cells, respectively.

NMS-859 is a potent VCP inhibitor, with IC₅₀s of 0.37 and 0.36 μM for wild-type VCP in the presence of 60 μM and 1 mM ATP in cells, respectively. NMS-859 shows very weak inhibitory activity against VCPC522T. NMS-859 also suppresses the proliferation of cells, with IC₅₀s of 3.5 μM and 3.0 μM in HCT116 and HeLa cell lines, respectively[1].

[1]. 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.

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