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产品名称: **NMS-859**
产品别名: **NMS-859**

生物活性:					
Description	NMS-859 is a potent, covalent VCP (p97) inhibitor, with IC ₅₀ s of 0.37 and 0.36 μM for wild-type VCP in the presence of 60 μM and 1 mM ATP in cells, respectively.				
IC ₅₀ & Target	IC50: 360 nM (Cellular p97, 1 mM ATP), 370 nM (Cellular p97, 60 μM ATP) ^[1]				
In Vitro	NMS-859 is a potent VCP inhibitor, with IC ₅₀ s 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 VCP ^{C522T} . NMS-859 also suppresses the proliferation of cells, with IC ₅₀ s of 3.5 μM and 3.0 μM in HCT116 and HeLa cell lines, respectively ^[1] .				
Solvent&Solubility	<i>In Vitro:</i> DMSO : ≥ 42 mg/mL (120.07 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		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
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
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.				
实验参考:					
Cell Assay	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% CO ₂ 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. IC ₅₀ values are calculated using the percentage of growth of treated cells versus the untreated control ^[1] .				
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.				