

Product Name: NMS-873 Revision Date: 05/16/2024

Product Data Sheet

NMS-873

Cat. No.: B2168

CAS No.: 1418013-75-8
Formula: C27H28N4O3S2

M.Wt: 520.67

Synonyms:

In Vitro

Target: Ubiquitination/ Proteasome

Pathway: p97

Storage: Store at -20°C



insoluble in H2O; ≥17.1 mg/mL in DMSO; ≥2.54 mg/mL in EtOH with gentle warming and ultrasonic

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	1.9206 mL	9.6030 mL	19.2060 mL
	5 mM	0.3841 mL	1.9206 mL	3.8412 mL
	10 mM	0.1921 mL	0.9603 mL	1.9206 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	VCP/p97 inhibitor,selective	VCP/p97 inhibitor,selective and allosteric	
IC ₅₀ & Target	30 nM (p97)	al ^Q oom	
	Cell Viability Assay	E tage of the state of the stat	
	Cell Line:	HCT116, HeLa cells	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		a higher concentration: Please warm the tube at 37°C for 10 minutes and/or	
		shake it in the ultrasonic bath for a while. Stock solution can be stored below	
		-20°C for several months.	
	Reacting conditions:	0.5, 2.5 μM for 6h	
		1 www.aneyht.com	

	Applications:	NMS-873 activated the unfolded protein response, interfered with autophagy
		and induced cancer cell death. NMS-873 mediated stabilization of Mcl-1 in live
		cells. NMS-873 inhibited the proliferative activity in HCT116 and HeLa cells
		with IC50 values of 0.4 and 0.7 μM, respectively.
In Vivo	Animal experiment	The court
	Applications: Office of the Applications of the Applications of the Application of the Ap	, segue de

Product Citations

- 1. McLelland GL, Goiran T, et al. "Mfn2 ubiquitination by PINK1/parkin gates the p97-dependent release of ER from mitochondria to drive mitophagy." Elife. 2018 Apr 20;7. pii: e32866.PMID:29676259
- 2. Yeo SK, French R, et al. "Opposing roles of Nfkb2 gene products p100 and p52 in the regulation of breast cancer stem cells." Breast Cancer ResTreat. 2017 Apr;162(3):465-477.PMID:28190248
- 3. Fullbright G, Rycenga HB, et al. "p97 Promotes a Conserved Mechanism of Helicase Unloading during DNA Cross-Link Repair." Mol Cell Biol. 2016 Nov 14;36(23):2983-2994.PMID:27644328

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References

1Magnaghi, P., D'Alessio, R., Valsasina, B., Avanzi, N., Rizzi, S., Asa, D., Gasparri, F., Cozzi, L., Cucchi, U., Orrenius, C., Polucci, P., Ballinari, D., Perrera, C., Leone, A., Cervi, G., Casale, E., Xiao, Y., Wong, C., Anderson, D. J., Galvani, A., Donati, D., O'Brien, T., Jackson, P. K. and Isacchi, A. (2013) Covalent and allosteric inhibitors of the ATPase VCP/p97 induce cancer cell death. Nat Chem Biol. 9, 548-556

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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