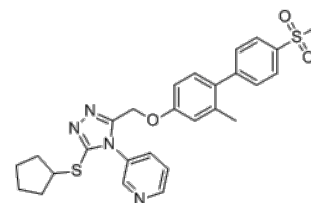


**Product Name** : NMS-873  
**Cat. No.** : PC-38468  
**CAS No.** : 1418013-75-8  
**Molecular Formula** : C<sub>27</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 520.666  
**Target** : p97/VCP  
**Solubility** : 10 mM in DMSO



## Biological Activity

NMS-873 (NMS873) is a potent, specific, cell-permeable, non-ATP competitive, allosteric inhibitor of **VCP/p97 ATPase** with IC<sub>50</sub> of 30 nM.

NMS-873 displays high selectivity over all other AAA ATPases, HSP90 and kinases tested at 10 μM.

NMS-873 activates the unfolded protein response (UPR), interferes with autophagy and induced cancer cell death.

p97 A530T mutant is sufficient to overcome the cytotoxicity of NMS-873 and alleviates p97 composition changes caused by the molecule but not other p97 inhibitors.

NMS-873 also is a potent HCMV antiviral with potential for HCMV infection via host VCP/p97 inhibition.

NMS-873 exhibits antiproliferative activity in cancer cells in vitro (IC<sub>50</sub>= 400 and 700 nM for HCT116 and HeLa cells respectively).

## References

Magnaghi P, et al. *Nat Chem Biol.* 2013 Sep;9(9):548-56.

Daniel J Anderson, et al. *Cancer Cell.* 2015 Nov 9;28(5):653-665.

Her NG, et al. *Cell Chem Biol.* 2016 Apr 21;23(4):517-28.

Lin YT, et al. *PLoS Pathog.* 2017 May 11;13(5):e1006329.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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