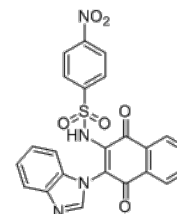


**Product Name** : AUTEN-67  
**Cat. No.** : PC-60217  
**CAS No.** : 1783800-77-0  
**Molecular Formula** : C<sub>23</sub>H<sub>14</sub>N<sub>4</sub>O<sub>6</sub>S  
**Molecular Weight** : 474.45  
**Target** : Autophagy  
**Solubility** : 10 mM in DMSO



## Biological Activity

AUTEN-67 is a small molecule **autophagy** enhancer that specifically inhibits myotubularin-related phosphatase **MTMR14**. At concentrations of 2, 10, and 100  $\mu$ M, AUTEN-67 inhibits MTMR14 by nearly 3%, 25%, and 70%, respectively.

AUTEN-67 shows no activity for CDC25B, other phosphatase, PTPN1.

AUTEN-67 significantly increases autophagic flux in cell lines and in vivo models, promotes longevity and protects neurons from undergoing stress-induced cell death.

AUTEN-67 also restores nesting behavior in a murine model of Alzheimer disease, without apparent side effects.

## References

Papp D, et al. *Autophagy*. 2016;12(2):273-86.

Billes V, et al. *J Huntingtons Dis*. 2016 May 7;5(2):133-47.

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

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