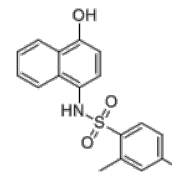


**Product Name** : ATG12-ATG3 inhibitor 189  
**Cat. No.** : PC-20824  
**CAS No.** : 333351-38-5  
**Molecular Formula** : C<sub>18</sub>H<sub>17</sub>NO<sub>3</sub>S  
**Molecular Weight** : 327.40  
**Target** : Autophagy-related Protein (Atg)  
**Solubility** : 10 mM in DMSO



CAS: 333351-38-5

## Biological Activity

ATG12-ATG3 inhibitor 189 (Compound 189) is a selective inhibitor of autophagy targeting **ATG12-ATG3 protein-protein interaction** with IC<sub>50</sub> of 9.3 μM.

ATG12-ATG3 inhibitor 189 (Compound 189) reduces the levels of lipidated LC3B (LC3B-II) relative to the unlipidated form (LC3B-I) upon induction of autophagosomes with torin1 and CQ.

ATG12-ATG3 inhibitor 189 (Compound 189) (5 μM) reduces autophagy levels and the growth of autophagy-addicted pancreatic PANC1 and NCI-H460 cell lines.

ATG12-ATG3 inhibitor 189 (Compound 189) displays a selective inhibitory effect on the growth of autophagy addicted tumor cells and inhibited secretion of IL1B/IL-1β (interleukin 1 beta) by macrophage-like cells.

## References

Gal Chaim Nuta, et al. *Autophagy*. 2023 Feb 22;1-14.

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

E-mail: tech@probechem.com