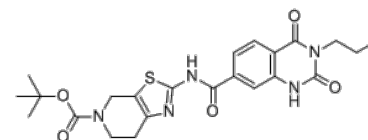


**Product Name** : Autogramin-1  
**Cat. No.** : PC-73084  
**CAS No.** : 2375541-73-2  
**Molecular Formula** : C<sub>23</sub>H<sub>27</sub>N<sub>5</sub>O<sub>5</sub>S  
**Molecular Weight** : 485.559  
**Target** : Autophagy  
**Solubility** : 10 mM in DMSO



## Biological Activity

Autogramin-1 is a potent **autophagy** inhibitor, inhibits autophagy induced by either starvation or mTORC1 inhibition with IC<sub>50</sub> of 0.17 and 0.44 uM, respectively.

Autogramin-1 also inhibits LC3 lipidation and the degradation of p62, and selectively inhibits growth of glucose-starved MCF7 cells as compared to fed cells.

Autogramin-1 selectively targets cholesterol transfer protein GRAM domain-containing protein 1A (GRAMD1A) and directly competes with cholesterol binding to the GRAMD1A StART domain.

GRAMD1A is required for autophagosome initiation.

## References

Laraia L, et al. *Nat Chem Biol.* 2019 Jul;15(7):710-720.

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

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