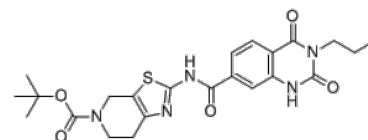


Product Name : Autogramin-1
Cat. No. : PC-73084
CAS No. : 2375541-73-2
Molecular Formula : C₂₃H₂₇N₅O₅S
Molecular Weight : 485.559
Target : Autophagy
Solubility : 10 mM in DMSO



Biological Activity

Autogramin-1 is a potent **autophagy** inhibitor, inhibits autophagy induced by either starvation or mTORC1 inhibition with IC₅₀ 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!

E-mail: tech@probechem.com