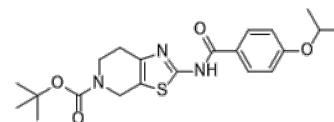


Product Name : Autogramin-2
Cat. No. : PC-24731
CAS No. : 2375541-45-8
Molecular Formula : C₂₁H₂₇N₃O₄S
Molecular Weight : 417.52
Target : Autophagy
Solubility : 10 mM in DMSO



Biological Activity

Autogramin-2 is a small molecule autophagy inhibitor with IC₅₀ of 0.27 μ M (amino acid starvation), specifically binds to the StART domain of GRAM domain containing 1A (GRAMD1A, Aster-A) and also specifically inhibits the cholesterol-transfer activity of GRAMD1A.

Autogramin-2 blocks cholesterol accumulation at autophagosomes and lysosomes in response to starvation in the presence of chloroquine.

Autogramin-2 does not compete with binding of 22-NBD-cholesterol to GRAMD1B (Aster-B) or GRAMD1C (Aster-C).

References

Yao-Wen Wu, et al. Autophagy. 2019 Dec;15(12):2167-2168.

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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