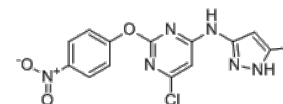


Product Name : Autophinib
Cat. No. : PC-60372
CAS No. : 1644443-47-9
Molecular Formula : C₁₄H₁₁ClN₆O₃
Molecular Weight : 346.731
Target : PI3K
Solubility : 10 mM in DMSO



Biological Activity

Autophinib is a novel, potent **autophagy** inhibitor that inhibits autophagy induced by starvation (IC₅₀=90 nM) or rapamycin (IC₅₀=40 nM) by targeting the lipid kinase **VPS34** (IC₅₀=19 nM).

Autophinib inhibits LC3 lipidation to form LC3-II, also inhibits p62 degradation dose-dependently in starved MCF7-LC3 cells.

Autophinib is an ATP-competitive inhibitor of VPS34 but not other lipid kinases, mTOR and TBK1.

References

Robke L, et al. *Angew Chem Int Ed Engl.* 2017 Jul 3;56(28):8153-8157.

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

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