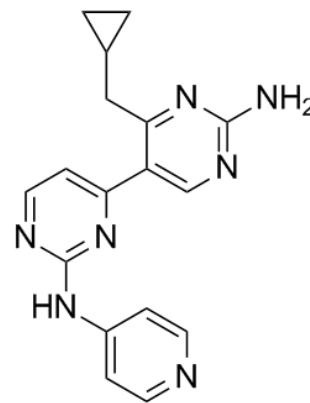


Product Name : Vps34 inhibitor PIK-III
Cat. No. : PC-43213
CAS No. : 1383716-40-2
Molecular Formula : C₁₇H₁₇N₇
Molecular Weight : 319.3638
Target : PI3K
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

Vps34 inhibitor PIK-III (PIK-III) is a potent, selective inhibitor of **Vps34** with IC₅₀ of 18 nM, shows >100-fold selectivity over other class I PI3Ks, PI4K β and mTOR.

Vps34 inhibitor PIK-III inhibits the localization of GFP-FYVE in mammalian cells with IC₅₀ of 55 nM, which is >10,000 times more potent than the non-selective VPS34 inhibitor 3-MA.

Vps34 inhibitor PIK-III robustly inhibits autophagy and LC3 lipidation, leads to the stabilization of autophagy substrates in mammalian cells.

References

Dowdle WE, et al. *Nat Cell Biol.* 2014 Nov;16(11):1069-79.

Honda A, et al. *ACS Med Chem Lett.* 2015 Nov 13;7(1):72-6.

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

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