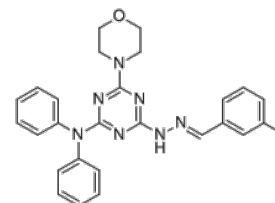


Product Name : Vacuolin-1
Cat. No. : PC-61038
CAS No. : 351986-85-1
Molecular Formula : C₂₆H₂₄IN₇O
Molecular Weight : 577.4
Target : PIKfyve
Solubility : 10 mM in DMSO



Biological Activity

Vacuolin-1 is a potent **PIKfyve** inhibitor that inhibits **autophagy** by impairing lysosomal maturation, potently and reversibly inhibits autophagosome-lysosome fusion by activating RAB5A.

Vacuolin-1 blocks the Ca(2+)-dependent exocytosis of lysosomes induced by ionomycin or plasma membrane wounding, without affecting the process of resealing, induces the formation of giant vacuoles.

References

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Shaik GM, et al. *Cell Signal.* 2009 Aug;21(8):1337-45.

Lu Y, et al. *Autophagy.* 2014;10(11):1895-905.

Sano O, et al. *FEBS Lett.* 2016 Jun;590(11):1576-85.

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

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