

Product Name : Vacuolin-1
Synonyms : Vacuolin 1; Vacuolin1

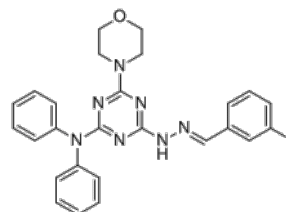
Cat No. : M14199

CAS Number : 351986-85-1

Molecular Formula : C₂₆H₂₄N₇O

Formula Weight : 577.40

Chemical Name : (E)-4-(2-(3-iodobenzylidene)hydrazinyl)-6-morpholino-N,N-diphenyl-1,3,5-triazin-2-amine



Description : A potent PIKfyve inhibitor that inhibits autophagy by impairing lysosomal maturation, potently and reversibly inhibits autophagosome-lysosome fusion by activating RAB5A; 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.

Pathway : Autophagy

Target : Autophagy

Receptor : Autophagy

Solubility : —

SMILES : IC1=CC(/C=N/NC2=NC(N(C3=CC=CC=C3)C4=CC=CC=C4)=NC(N5CCOCC5)=N2)=CC=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Cerny J, et al. EMBO Rep. 2004 Sep;5(9):883-8. | 2. Shaik GM, et al. Cell Signal. 2009 Aug;21(8):1337-45. | 3. Lu Y, et al. Autophagy. 2014;10(11):1895-905. | 4. Sano O, et al. FEBS Lett. 2016 Jun;590(11):1576-85.