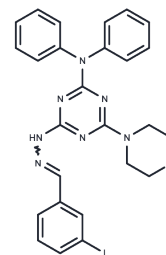


Vacuolin-1

Chemical Properties

CAS No. :	351986-85-1
Formula:	C ₂₆ H ₂₄ N ₄ O
Molecular Weight:	577.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Vacuolin-1 is a cell-permeable inhibitor of Ca ²⁺ dependent fusion of lysosomes to the cell membrane. It acts by inhibiting release of lysosomal content.vacuolin-1 is a potent and selective PIKfyve inhibitor and inhibits late-stage autophagy by impairing lysosomal maturation
Targets(IC50)	PI3K,Autophagy
In vivo	vacuolin-1 potently and reversibly inhibited the fusion between autophagosomes and lysosomes in mammalian cells, thereby inducing the accumulation of autophagosomes[1].

Solubility Information

Solubility	DMSO: 5.77 mg/mL (10 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7318 mL	8.6592 mL	17.3184 mL
5 mM	0.3464 mL	1.7318 mL	3.4637 mL
10 mM	0.1732 mL	0.8659 mL	1.7318 mL
50 mM	0.0346 mL	0.1732 mL	0.3464 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Yan R, Zhang P, Shen S, et al.Carnosine regulation of intracellular pH homeostasis promotes lysosome-dependent tumor immunoevasion.Nature Immunology.2024: 1-13.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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