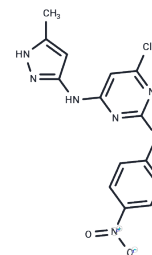


## Autophinib

## Chemical Properties

CAS No. :	1644443-47-9
Formula:	C <sub>14</sub> H <sub>11</sub> ClN <sub>6</sub> O <sub>3</sub>
Molecular Weight:	346.73
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Autophinib is a potent autophagy inhibitor with a novel chemotype with IC <sub>50</sub> values of 90 and 40 nM for autophagy in starvation induced autophagy assay and rapamycin induced autophagy assay.
Targets(IC <sub>50</sub> )	Autophagy,PI3K
In vitro	Autophinib targets VPS34 but not other lipid kinases, mTOR and TBK1. Autophinib appears to be ATP-competitive, targets VPS34 in cell lysate and induces cellular phenotypes consistent with VPS34 inhibition. Autophinib inhibits the accumulation of autophagosomes under fed as well as starved conditions, but does not affect the number of autolysosomes. Thus it is not a late stage autophagy inhibitor but an inhibitor of autophagosome formation.
Cell Research	Cell lines: HeLa cellsConcentrations: 30 μMIncubation Time: 18 hMethod:

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 5 mg/mL (14.42 mM),Sonication and heating are recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.8841 mL	14.4204 mL	28.8409 mL
5 mM	0.5768 mL	2.8841 mL	5.7682 mL
10 mM	0.2884 mL	1.442 mL	2.8841 mL
50 mM	0.0577 mL	0.2884 mL	0.5768 mL

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Robke L, et al. Phenotypic Identification of a Novel Autophagy Inhibitor Chemotype Targeting Lipid Kinase VPS34. *Angew Chem Int Ed Engl.* 2017 Jul 3;56(28):8153-8157.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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