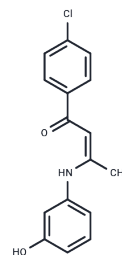


SMER18

Chemical Properties

CAS No. :	944153-47-3
Formula:	C ₁₆ H ₁₄ ClNO ₂
Molecular Weight:	287.74
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	SMER18 is a small molecule enhancer of rapamycin, functioning as an mTOR-independent autophagy inducer.
Targets(IC50)	Autophagy
In vitro	SMER18 is a small molecule enhancer of rapamycin that functions as an mTOR-independent autophagy inducer, capable of enhancing the clearance of autophagy substrates such as mutant htt (related to Huntington's disease) and A53T α -synuclein (associated with familial Parkinson's disease)[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (278.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4754 mL	17.3768 mL	34.7536 mL
5 mM	0.6951 mL	3.4754 mL	6.9507 mL
10 mM	0.3475 mL	1.7377 mL	3.4754 mL
50 mM	0.0695 mL	0.3475 mL	0.6951 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.

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

Sarkar S, et al. Small molecules enhance autophagy and reduce toxicity in Huntington's disease models. Nat Chem Biol. 2007 Jun;3(6):331-338.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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