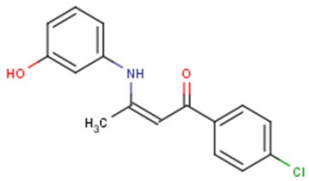
Data Sheet (Cat.No.T16900)

SMER18

Chemical Properties



CAS No.:	944153-47-3
Formula:	C16H14ClNO2
Molecular Weight:	287.74
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	SMER18 is a small molecule enhancer of rapamycin which acts as an mTOR-independent autophagy inducer.
Targets(IC_{50})	Others: None
In vitro	SMER18 acts either independently or downstream of the target of Rapamycin, attenuates mutant huntingtin-fragment toxicity in Huntington's disease cell and Drosophila melanogaster models. mTOR SMER18 induces autophagy independently of Rapamycin in mammalian cells, enhancing the clearance of autophagy substrates such as mutant huntingtin and A53T alpha-synuclein, which are associated with Huntington's disease and familial Parkinson's disease, respectively.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.475 mL	17.377 mL	34.754 mL
5 mM	0.695 mL	3.475 mL	6.951 mL
10 mM	0.348 mL	1.738 mL	3.475 mL
50 mM	0.07 mL	0.348 mL	0.695 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

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