
Product Data Sheet

Product Name: SMER18
Cat. No.: GC34117

Chemical Properties

Cas. No. 944153-47-3

SMILES C/C(NC1=CC=CC(O)=C1)=C/C(C2=CC=C(Cl)C=C2)=O

Formula C₁₆H₁₄ClNO₂ M.Wt 287.74

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

SMER18 is a small molecule enhancer of rapamycin which act as a mTOR-independent autophagy inducer. Target: 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. 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, which suggests therapeutic potential.

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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