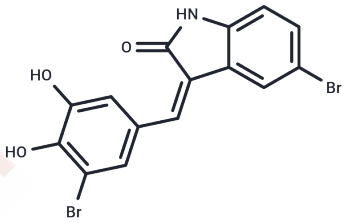
Data Sheet (Cat.No.T8081)

TargetMol

LC3-mHTT-IN-AN1

Chemical Properties



CAS No. : 486443-73-6

Formula: C15H9Br2NO3

Molecular Weight: 411.04

Storage: Keep away from direct sunlight
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	LC3-mHTT-IN-AN1 is a mHTT-LC3 linker compound that interacts with both mutant huntingtin protein (mHTT) and LC3B. LC3-mHTT-IN-AN1 targeted mHTT to autophagosomes reduces the levels of mHTT in an allele-selective manner in cultured Huntington disease (HD) mouse neurons.
Targets(IC50)	Autophagy,ATTECs,ATG
In vitro	LC3-mHTT-IN-AN1 targeted mHTT to autophagosomes, reduced mHTT levels in an allele-selective manner, and rescued disease-relevant phenotypes in cells and in vivo in fly and mouse models of Huntington's disease.

Solubility Information

Solubility	DMSO: 120 mg/mL (291.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.73 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4329 mL	12.1643 mL	24.3285 mL
5 mM	0.4866 mL	2.4329 mL	4.8657 mL
10 mM	0.2433 mL	1.2164 mL	2.4329 mL
50 mM	0.0487 mL	0.2433 mL	0.4866 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

Li Z, et al. Allele-selective lowering of mutant HTT protein by HTT-LC3 linker compounds. Nature. 2019 Nov;575 (7781):203-209.