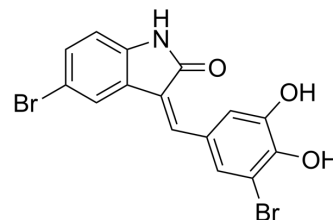


LC3-mHTT-IN-AN1

Cat. No.:	HY-130258		
CAS No.:	486443-73-6		
Molecular Formula:	C ₁₅ H ₉ Br ₂ NO ₃		
Molecular Weight:	411.04		
Target:	Autophagy; ATTECs; Atg8/LC3		
Pathway:	Autophagy; PROTAC		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (304.11 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.06 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	LC3-mHTT-IN-AN1 (Compound AN1) is a mHTT-LC3 linker compound, which interacts with both mutant huntingtin protein (mHTT) and LC3B but not with wtHTT or irrelevant control proteins. LC3-mHTT-IN-AN1 reduces the levels of mHTT in an allele-selective manner in cultured Huntington disease (HD) mouse neurons ^[1] .
IC ₅₀ & Target	mHTT-LC3 Linker Compound
In Vitro	LC3-mHTT-IN-AN1 (10, 50, 100, and 300 nM) reduces the levels of mHTT in an allele-selective manner in cultured HD mouse neurons ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA