
Product Data Sheet

Product Name: LC3-mHTT-IN-AN1

Cat. No.: GC39395

Chemical Properties

Cas. No. 486443-73-6

SMILES BrC1=CC=C(C/2=C1)NC(C2=C/C3=CC(Br)=C(C(O)=C3)O)=OFormula $C_{15}H_9Br_2NO_3$

M.Wt 411.04

Solubility DMSO: 125 mg/mL (304.11 mM); Water: < 0.1 mg/mL
(insoluble)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**

LC3-mHTT-IN-AN1 is a linker molecule that interacts with the autophagosome protein microtubule-associated protein 1 light chain 3 β (LC3B) and mutant huntingtin (Hdh).¹ It decreases Hdh^{Q7/Q140}, but not wild-type huntingtin, levels in primary mouse cortical neurons when used at a concentration of 300 nM. LC3-mHTT-IN-AN1 increases survival of *Drosophila* expressing human Hdh^{Q128}.

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

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

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