

Product Data Sheet

Product Name: DC-LC3in-D5

Cat. No.: GC65191

Chemical Properties

Cas. No. 2868312-73-4

Formula C₁₉H₂₂Cl₂N₂O₃

M.Wt 397.3

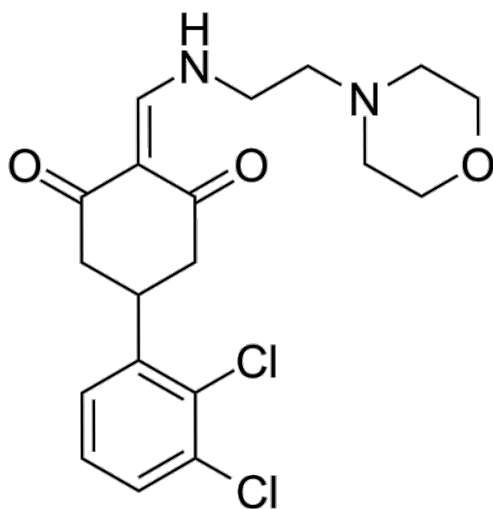
Solubility DMSO : 35.71 mg/mL (89.88 mM; ultrasonic and warming and heat to 60°C)

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

DC-LC3in-D5 acts as an autophagy inhibitor by attenuating LC3B lipidation. DC-LC3in-D5 binds with LC3B. DC-LC3in-D5 disrupts the LC3B-LBP2 interaction with an IC₅₀ of 200 nM. DC-LC3in-D5 may contribute to anti-HCV or combination treatments in cancer through inhibiting autophagy[1].

DC-LC3in-D5 demonstrates high selectivity to LC3A/B in the proteome. DC-LC3in-D5 exhibits a potent covalent reactivity and selectivity to LC3A/B in HeLa cells[1]. Treatment of HeLa cells with DC-

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

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LC3in-D5 (3-30 μ M) results in disruption of LC3B lipidation, inhibition of autophagic vesicle formation, and accumulation of p62[1].

[1]. Shijie Fan, et al. Inhibition of Autophagy by a Small Molecule through Covalent Modification of the LC3 Protein. Angew Chem Int Ed Engl. 2021 Dec 6;60(50):26105-26114.

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