TargetMol

TCID

Chemical Properties

CAS No. :	30675-13-9
Formula :	C9H2Cl4O2
Molecular Weight :	283.92
Appearance :	no data available
Storage :	Powder: -20℃ for 3 years｜In solvent: -80℃ for 1 year
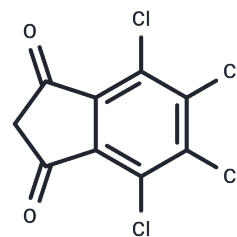
Biological Description

Description	TCID (UCH-L3 Inhibitor)(IC50=0.6 μM) is a DUB inhibitor of ubiquitin C-terminal hydrolase L3. It has the 125-fold selectivity to L1.
Targets(IC50)	DUB
In vitro	TCID is selective for UCH-L3 over UCH-L1 by over 100-fold. [1] NU6027 (10 μM) does not promote YFP-GLT-1 accumulation in intracellular vesicles in transfected MDCK cells, while LDN-57444 (10 μM) promotes YFP-GLT-1 accumulation. NU6027 (10 μM) does not produce long-term lysosomal degradation of GLT-1, while LDN-57444 (10 μM) has such effect. [2] TCID (10 μM) diminishes GlyT2 ubiquitination in brainstem and spinal cord primary neurons, which is more pronounced when UCHL1 is inhibited and when cells are exposed to these inhibitors for longer periods. [3]

Solubility Information

Solubility	DMSO: 14.2 mg/mL (50.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5221 mL	17.6106 mL	35.2212 mL
5 mM	0.7044 mL	3.5221 mL	7.0442 mL
10 mM	0.3522 mL	1.7611 mL	3.5221 mL
50 mM	0.0704 mL	0.3522 mL	0.7044 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.

Reference

Liu Y, et al. Chem Biol, 2003, 10(9), 837-846.

Martínez-Villarreal J, et al. Glia, 2012, 60(9), 1356-1365

de Juan-Sanz J, et al. PLoS One, 2013, 8(3), e58863.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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