

LDN-57444

Cat. # F2104-5, F2104-25

 Also Known as:
 LDN57444

 Formula:
 $C_{17}H_{11}Cl_3N_2O_3$

 MW:
 397.6 Da

 CAS No.:
 668467-91-2

 Source:
 Synthetic

Form: Lyophilized Powder Solubility: Soluble in DMSO

Concentration: N/A

Quality Assurance: > 98% by HPLC and NMR

Description: LDN-57444 is a potent small chemical inhibitor of ubiquitin C-terminal hydrolase-L1 (UCH-

L1, IC50 = 0.88 μ M). UCHL1 functions to generate free ubiquitin from ubiquitin precursors. Loss of UCH-L1 activity causes apoptosis due to an impaired ubiquitin-proteasome pathway. LDN-57444-induced reduction of free ubiquitin could increase

spine size while decreasing spine density in hippocampal neurons.

Preparing stock solution in DMSO up to 10 mg/ml. Typical working concentration range is

 $5 - 25 \mu M$.

Storage: Eligible for room temperature shipping. Store at -20°C or -80°C upon receiving; avoid

multiple freeze-thaw cycles after dissolving in DMSO.

Literature: 1. Cartier A.E., et al., J. Neuroscience, 2009, 29, 7857.

2. Liu Y., et al., Chem. & Biol. 2003, 10, 837.