LDN-57444

(5-Chloro-1-[(2,5-dichlorophenyl)methyl]-1H-indole-2,3-dione 3-(O-acetyloxime)

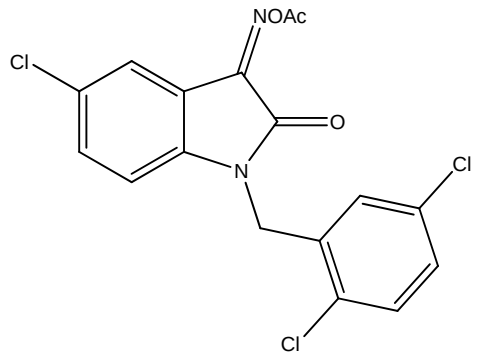
Cat. # SI9639

Background: LDN-57444 is s cell permeable ubiquitin C-terminal hydrolase (UCH-L1) inhibitor (Ki=0.4 μM) with approximately 28-fold greater selectivity over UCH-L3. Decreases proteasome activity and increases levels of ubiquitinated proteins. Induces apoptosis and causes dramatic alterations in synaptic protein distribution and spine morphology in vivo. LDN-57444 is a useful tool to study UCH-L1 in different pathological conditions such as cancer and neurodegeneration.

Application: Inhibition of ubiquitin C-terminal hydrolase.

Product Information

CAS No.	668467-91-2
Purity:	> 98% (TLC); NMR (Conforms)
Molecular Weight:	397.6
Physical State:	Yellow powder
Quantity:	10 mg, 50 mg
Solubility:	DMSO (20mg/ml)
Storage:	Store desiccated as supplied at 4°C for up to 2 years. Store solutions at -20°C for up to one week. Protect from light.



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

References

1. Tan et al Endoplasmic reticulum stress contributes to the cell death induced by UCH-L1 inhibitor. *Mol.Cell.Biochem*. **318:** 109 (2008).

2. Susor, A., et al., Proteomic analysis of porcine oocytes during in vitro maturation reveals essential role for the ubiquitin C-terminal hydrolase-L1. *Reprod.* **134:** 559 - 568, (2007)