



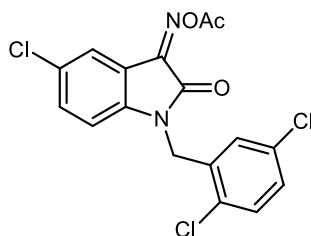
Catalog # 10-1303

LDN-57444

CAS# 668467-91-2

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

Lot # X104159



Inhibits ubiquitin C-terminal hydrolase (UCH-L1) ($K_i=0.4 \mu\text{M}$). Decreases proteasome activity and increases levels of ubiquitinated proteins. Induces apoptosis. Causes dramatic alterations in synaptic protein distribution and spine morphology *in vivo*. Cell permeable.

- 1) Liu *et al.* (2003), *Discovery of inhibitors that elucidate the role of UCH-L1 activity in the H1299 lung cancer cell line*; Chem. Biol., **10** 837
- 2) Tan *et al.* (2008), *endoplasmic reticulum stress contributes to the cell death induced by UCH-L1 inhibitor*; Mol. Cell. Biochem., **318** 109
- 3) Cartier *et al.* (2009), *Regulation of synaptic structure by ubiquitin C-terminal hydrolase L1*; J. Neurosci., **29** 7857

PHYSICAL DATA

Molecular Weight: 397.65
Molecular Formula: $\text{C}_{17}\text{H}_{11}\text{Cl}_3\text{N}_2\text{O}_3$
Purity: 98% by TLC
NMR: (Conforms)
Solubility: DMSO (up to 20 mg/ml)
Physical Description: Yellow solid
Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 week.

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