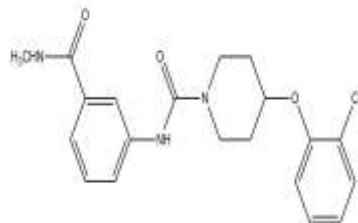


SCD1 Inhibitor

CATALOG #: 1716-1, 5
AMOUNT: 1 mg, 5 mg

STRUCTURE:



ALTERNATE NAME: 4-(2-Chlorophenoxy)-N-(3-(3-methylcarbamoyl)phenyl)piperidine-1-carboxamide

MOLECULAR FORMULA: C₂₀H₂₂ClN₃O₃

MOLECULAR WEIGHT: 387.86

APPEARANCE: Crystalline solid

SOLUBILITY: DMSO (~ 180 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20°C

DESCRIPTION: Cell-permeable. A potent and selective inhibitor of SCD1 (stearoyl-CoA desaturase 1) (*In vitro*: IC₅₀ = 37 nM for hSCD1, <4 nM for mSCD1). Also exhibited *in vivo* efficacy with dose-dependent desaturation index lowering effect. SCD1 inhibition resulted in alterations in macrophage membrane lipid composition and marked hypersensitivity to toll-like receptor 4 agonists.

REFERENCE: Xin, Z., et al. (2008). *Bioorg. Med. Chem. Lett.* **18**, 4298-4302.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

- Cerulenin (Cat. No. 1579-5, 50)
- Fingolimod (FTY-720A, FTY720) (Cat. No. 1618-5, 25)
- ACC2 Inhibitor (Cat. No. 1717-1)