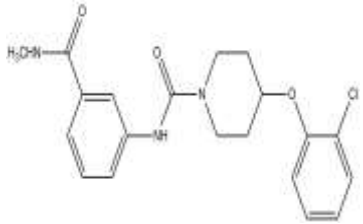
DATA SHEET

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: $C_{20}H_{22}ClN_3O_3$

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*: IC_{50} = 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)**

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