# SCD1 Inhibitor, SCD1(stearoyl-CoA desaturase 1) inhibitor ab142089

## Overview

**Product name**  
SCD1 Inhibitor, SCD1(stearoyl-CoA desaturase 1) inhibitor

**Description**  
Potent, selective SCD1(stearoyl-CoA desaturase 1) inhibitor

**Biological description**  
Potent, selective SCD1 (stearoyl-CoA desaturase 1) inhibitor ($IC_{50} = 4.5 \text{ nM}$). Inhibits the conversion of saturated, long-chain fatty acyl-CoAs to monounsaturated, long-chain fatty acyl-CoAs *in vitro*, when heptadecanoic acid and palmitic acid are used as the substrate ($IC_{50} = 7.9$ and 6.8 nM, respectively). Active *in vivo*. Orally bioavailable.

**Purity**  
> 99%

**CAS Number**  
1032229-33-6

**Chemical structure**

![Chemical structure image](image)

**Chemical name**  
4-(2-Chlorophenoxy)-N-[3-[(methylamino)carbonyl]phenyl]-1-piperidinecarboxamide

**Molecular weight**  
387.87

**Molecular formula**  
$C_{20}H_{22}ClN_3O_3$

**PubChem identifier**  
24905400

**Storage instructions**  
Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**  
Soluble in ethanol to 10 mM and in DMSO to 100 mM

**Handling**  
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

## Properties

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Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**SMILES**
CNC(=O)C1=CC(CC=CC1)NC(=O)N2CCC(CC2)OC3=CC=CC=C3Cl

**Source**
Synthetic

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

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