# Stearoyl-CoA Desaturase (SCD)

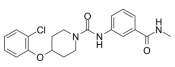
Stearoyl-CoA desaturase (SCD) is an integral membrane protein of the endoplasmic reticulum (ER) that catalyzes the formation of monounsaturated fatty acids from saturated fatty acids. Recent studies suggest that SCD is a key regulator of energy metabolism and has implications in dislipidemia and obesity. It is responsible for forming a double bond in Stearoyl-CoA. This is how themonounsaturated fatty acid oleic acid is produced from the saturated fatty acid stearic acid. Stearoyl-CoA desaturase is an iron-containing enzyme that catalyzes a rate-limiting step in the synthesis of unsaturated fatty acids. The principal product of SCD is oleic acid, which is formed by desaturation of stearic acid. The ratio of stearic acid to oleic acid has been implicated in the regulation of cell growth and differentiation through effects on cell membrane fluidity and signal transduction.

# Stearoyl-CoA Desaturase (SCD) Inhibitors

## A939572

Cat. No.: HY-50709

A939572 is a potent, and orally bioavailable **stearoyl-CoA desaturase1 (SCD1)** inhibitor with $IC_{50}$ values of <4 nM and 37 nM for **mSCD1** and **hSCD1**, respectively.

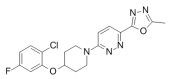


**Purity:** 99.67%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 50 mg

## CAY10566

Cat. No.: HY-15823

CAY10566 is a potent, orally bioavailable and selective **stearoyl-CoA desaturase1 (SCD1)** inhibitor with $IC_{50}$s of 4.5 and 26 nM in mouse and human enzymatic assays, respectively.

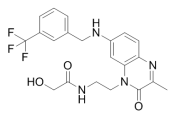


**Purity:** 99.01%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg

## CVT-12012

Cat. No.: HY-11034

CVT-12012 is a potent and orally bioavailable stearoyl-coA desaturase **(SCD)** inhibitor, with $IC_{50}$**s** of 38 nM, 6.1 nM for rat microsomal and human HEPG2, respectively.



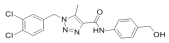
**Purity:** 98.97%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## GSK1940029

(SCD inhibitor 1)

Cat. No.: HY-19762

GSK1940029 is a stearoyl-coa desaturase (**SCD**) extracted from patent WO/2009060053 A1, compound example 16.

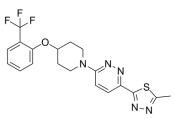


**Purity:** 99.78%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

## MF-438

Cat. No.: HY-15822

MF-438 is a potent and orally bioavailable **stearoyl-CoA desaturase 1 (SCD1)** inhibitor with an $EC_{50}$ of 2.3 nM for rSCD1.

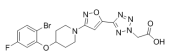


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## MK-8245

Cat. No.: HY-13070

MK-8245 is a potent, liver-targeted **stearoyl-CoA desaturase (SCD)** inhibitor, with $IC_{50}$s of 1 nM for human SCD1 and 3 nM for both rat SCD1 and mouse SCD1, with antidiabetic and antidyslipidemic efficacy.

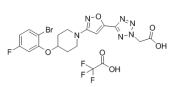


**Purity:** 99.82%
**Clinical Data:** Phase 2
**Size:** 10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 50 mg, 100 mg

## MK-8245 Trifluoroacetate

Cat. No.: HY-13077

MK-8245 trifluoroacetate is a liver-targeting inhibitor of stearoyl-CoA desaturase (SCD) with IC50 of 1 nM for human SCD1 and 3 nM for both rat SCD1 and mouse SCD1, with anti-diabetic and anti-dyslipidemic efficacy.



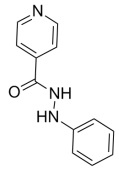
**Purity:** 98.09%
**Clinical Data:** Phase 2
**Size:** 5 mg, 10 mg, 50 mg, 100 mg

## PluriSIn 1

(NSC 14613)

Cat. No.: HY-15700

PluriSIn 1 (NSC 14613) is an inhibitor of stearoyl-coA desaturase (**SCD**), and is a pluripotent cell-specific inhibitor.

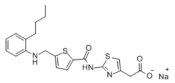


**Purity:** 99.64%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 10 mg, 50 mg

## SCD1 inhibitor-1

Cat. No.: HY-112812

SCD1 inhibitor-1 is a potent and liver-selective **stearoyl-CoA desaturase-1 (SCD1)** inhibitor.

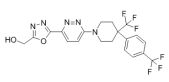


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 100 mg, 250 mg, 500 mg

## T-3764518

Cat. No.: HY-102045

T-3764518 is a novel and potent stearoyl coenzyme A desaturase (**SCD**) inhibitor with an $IC_{50}$ of 4.7 nM.



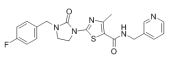
**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 250 mg, 500 mg


Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

## XEN723

**Cat. No.:** HY-100249

XEN723 is a novel and potent thiazolylimidazolidinone inhibitor of **Stearoyl-CoA Desaturase** (**SCD1**) with $IC_{50}$s of 45 and 524 nM in mouse and HepG2 cell, respectively.



**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg