Acyltransferase

Diacylglycerol acyltransferase; Diglyceride acyltransferase; acyl-CoA:cholesterol acyltransferase; mono-acylglycerol acyltransferase

Acyltransferase (AT) catalyzes the transfer of an acyl moiety from acyl-coenzyme A (acyl-CoA) to an acceptor. Acyltransferases play important roles in the maintenance of homeostasis in the human body and have been linked to various diseases. The Acyltransferase family includes acyl-CoA:cholesterol AT (ACAT), diacylglycerol AT (DGAT), and monoacylglycerol AT (MGAT) for the metabolism of lipids.

ACAT (acyl-coenzyme A:cholesterol acyltransferase) is an intracellular enzyme that catalyzes the formation of cholesterol esters from cholesterol and fatty acyl-coenzyme A. In mammals, two isoenzymes, ACAT1 and ACAT2, encoded by two different genes, exist. ACATs play important roles in cellular cholesterol homeostasis in various tissues.

DGAT (acyl-CoA:diacylglycerol acyltransferase) is an integral membrane enzyme that catalyses the last step of triacylglycerol synthesis from diacylglycerol and acyl-CoA. DGAT activity resides mainly in two distinct membrane bound polypeptides, known as DGAT1 and DGAT2.

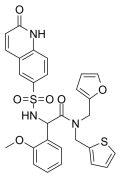
MGAT (acyl-CoA:monoacylglycerol acyltransferase) catalyzes the synthesis of diacylglycerol, the precursor of physiologically important lipids such as triacylglycerol and phospholipids. In the intestine, MGAT plays a major role in the absorption of dietary fat because resynthesis of triacylglycerol is required for the assembly of lipoproteins that transport absorbed fat to other tissues.

Acyltransferase Inhibitors & Activators

(Rac)-OSMI-1

Cat. No.: HY-119738A

(Rac)-OSMI-1 is the racemate of OSMI-1. OSMI-1 is a cell-permeable O-GlcNAc transferase (OGT) inhibitor with an IC_{50} value of 2.7 μM.

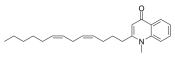


Purity: 96.05%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg

1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone

Cat. No.: HY-N9530

1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone, a quinolone alkaloid, is a **diacylglycerol acyltransferase** inhibitor and **angiotensin II receptor** blocker, with **IC_{50}**s of 20.1 μM and 34.1 μM, respectively.



Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

10,12-Tricosadiynoic acid

Cat. No.: HY-135425

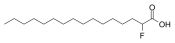
10,12-Tricosadiynoic acid is a highly specific, selective, high affinity and orally active **acyl-CoA oxidase-1 (ACOX1)** inhibitor. 10,12-Tricosadiynoic acid can treat high fat diet- or obesity-induced metabolic diseases by improving mitochondrial lipid and ROS metabolism.

Purity: 96.71%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg

2-Fluoropalmitic acid

Cat. No.: HY-117651

2-Fluoropalmitic acid, an acyl-CoA synthetase inhibitor, acts as a candidate anti-glioma agent. 2-Fluoropalmitic acid suppresses the viability and stem-like phenotype of glioma stem cells (GSCs). 2-Fluoropalmitic acid also inhibits proliferation and invasion of glioma cell lines.



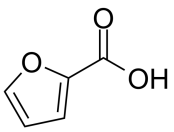
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

2-Furoic acid

(Furan-2-carboxylic acid)

Cat. No.: HY-W012946

2-Furoic acid (Furan-2-carboxylic acid) is an organic compound produced through furfural oxidation. 2-Furoic acid exhibits hypolipidemic effet, lowers both serum cholesterol and serum triglyceride levels in rats.



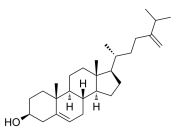
Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 100 mg

24-Methylenecholesterol

(Ostreasterol)

Cat. No.: HY-133968

24-Methylenecholesterol (Ostreasterol), a natural marine sterol, stimulates **cholesterol acyltransferase** in human macrophages. 24-Methylenecholesterol possess anti-aging effects in yeast. 24-methylenecholesterol enhances honey bee longevity and improves nurse bee physiology.



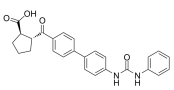
Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

A 922500

(DGAT-1 Inhibitor 4a)

Cat. No.: HY-10038

A 922500 (DGAT-1 Inhibitor 4a) is a potent, selective, and orally bioavailable **diacylglycerol acyltransferase 1 (DGAT-1)** inhibitor with **IC_{50}**s of 9 and 22 nM against human and mouse DGAT-1, respectively.

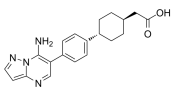


Purity: 98.50%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

ABT-046

Cat. No.: HY-15197

ABT-046 is a potent, selective, and orally efficacious acyl CoA:diacylglycerol acyltransferase 1 (**DGAT-1**) inhibitor (**IC_{50}**= 8 nM).

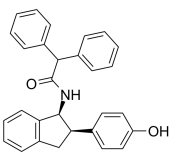


Purity: 98.13%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

ACAT-IN-1 cis isomer

Cat. No.: HY-101648

ACAT-IN-1 cis isomer is a potent **ACAT** inhibitor with an **IC_{50}** of 100 nM.

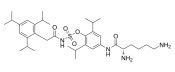


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-10

Cat. No.: HY-139027

ACAT-IN-10 is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor extracted from patent EP1236468A1, example 197. ACAT-IN-10 weakly inhibits NF-κB mediated transcription.



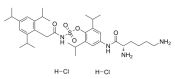
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

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

ACAT-IN-10 dihydrochloride

Cat. No.: HY-139027A

ACAT-IN-10 dihydrochloride is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor extracted from patent EP1236468A1, example 197. ACAT-IN-10 dihydrochloride weakly inhibits NF-κB mediated transcription.

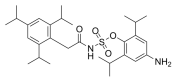


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-2

Cat. No.: HY-139019

ACAT-IN-2 is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor extracted from patent EP1236468A1, example 187. ACAT-IN-2 inhibits NF-κB mediated transcription.

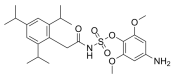


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-3

Cat. No.: HY-139020

ACAT-IN-3 is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor. ACAT-IN-3 inhibits NF-κB mediated transcription.

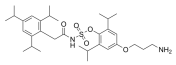


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-4

Cat. No.: HY-139021

ACAT-IN-4 (Example 208) is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor. ACAT-IN-4 inhibits NF-κB mediated transcription.

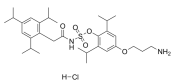


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-4 hydrochloride

Cat. No.: HY-139021A

ACAT-IN-4 hydrochloride (Example 208) is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor. ACAT-IN-4 hydrochloride inhibits NF-κB mediated transcription.

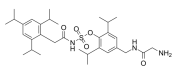


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-5

Cat. No.: HY-139022

ACAT-IN-5 (example 19) is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor. ACAT-IN-5 inhibits NF-κB mediated transcription.

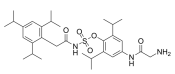


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-6

Cat. No.: HY-139023

ACAT-IN-6 is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor extracted from patent EP1236468A1, example 200. ACAT-IN-6 potently inhibits NF-κB mediated transcription.

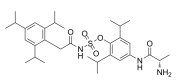


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-7

Cat. No.: HY-139024

ACAT-IN-7 is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor. ACAT-IN-7 inhibits NF-κB mediated transcription.

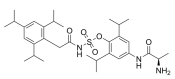


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-8

Cat. No.: HY-139025

ACAT-IN-8 (example 206) is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor. ACAT-IN-8 inhibits NF-κB mediated transcription.

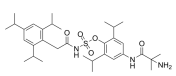


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ACAT-IN-9

Cat. No.: HY-139026

ACAT-IN-9 is an **acyl-Coenzyme A:cholesterol acyltransferase (ACAT)** inhibitor extracted from patent EP1236468A1, example 207. ACAT-IN-9 inhibits NF-κB mediated transcription.

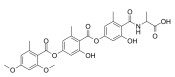


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Amidepsine A

Cat. No.: HY-125319

Amidepsine A is a fungal metabolite isolated from the culture broth of Humicola sp. FO-2942 that inhibits **Diacylglycerol acyltransferases** (DGAT) activity.

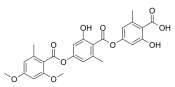


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Amidepsine D

Cat. No.: HY-129295

Amidepsine D is a fungal metabolite isolated from the culture broth of Humicola sp. FO-2942 that inhibits **Diacylglycerol acyltransferases** (DGAT) activity.



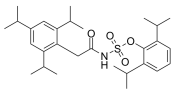
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Avasimibe

(CI-1011; PD-148515)

Cat. No.: HY-13215

Avasimibe (CI-1011; PD-148515) is an orally active acyl coenzyme A-cholesterol acyltransferase (**ACAT**; also called **SOAT**)) inhibitor with IC_{50}s of 24 and 9.2 μM for **ACAT1** and **ACAT2**, respectively. Avasimibe can be used for the research of prostate cancer.

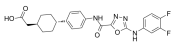


Purity: 99.58%
Clinical Data: Phase 3
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 200 mg

AZD3988

Cat. No.: HY-50861

AZD3988 is a **diacylglycerol acyl transferase-1 (DGAT-1)** inhibitor with IC_{50}s of 6, 5, 11 nM for human, rat, and mouse DGAT-1, respectively.

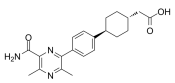


Purity: 98.62%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg

AZD7687

Cat. No.: HY-15497

AZD7687 is a potent, selective, reversible and orally active **diacylglycerol acyltransferase 1 (DGAT1)** inhibitor with an IC_{50} of 80 nM for **human DGAT1**. AZD7687 can be used for type 2 diabetes mellitus and obesity research.

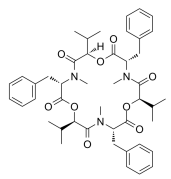


Purity: 99.04%
Clinical Data: Phase 1
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Beauvericin

Cat. No.: HY-N6739

Beauvericin is a Fusarium mycotoxin. Beauvericin inhibits acyl-CoA: cholesterol acyltransferase (**ACAT**) activity with an IC_{50} of 3 μM in an enzyme assay using rat liver microsomes.

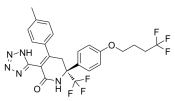


Purity: 99.11%
Clinical Data: No Development Reported
Size: 5 mg

BMS-963272

Cat. No.: HY-132924

BMS-963272 is a potent, selective **MGAT2** inhibitor (IC_{50} = 7.1 nM) for the treatment of metabolic disorders.

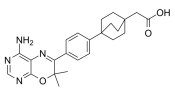


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

DGAT-1 inhibitor 2

Cat. No.: HY-50670

DGAT-1 inhibitor 2 is an effective inhibitor of DGAT-1;antiobesity agents. IC50 value: Target: DGAT-1 Acyl-CoA:diacylglycerol acyltransferase 1 (DGAT1) is one of two known DGAT enzymes that catalyze the final step in triglyceride synthesis.

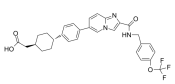


Purity: 95.94%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

DGAT1-IN-1

Cat. No.: HY-12425

DGAT1-IN-1 is a potent DGAT1 inhibitor with IC50 of < 10 nM(cell lysate from Hep3B cells overexpressing human DGAT1).

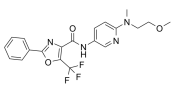


Purity: ≥95.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

DGAT1-IN-3

Cat. No.: HY-16434

DGAT1-IN-3 is a potent, selective and orally bioavailable inhibitor of **DGAT-1**, with IC_{50}s of 38 nM for human **DGAT-1** and 120 nM for rat **DGAT-1**. DGAT1-IN-3 could be used to research of obesity, dyslipidemia, and metabolic syndrome.

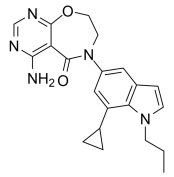


Purity: 99.86%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Diacylglycerol acyltransferase inhibitor-1

Cat. No.: HY-112851

Diacylglycerol acyltransferase inhibitor-1 is a diacylglycerol acyltransferase **(DGAT1)** inhibitor.

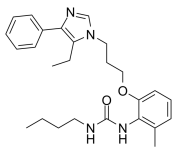


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

E-5324

Cat. No.: HY-19183

E-5324 is potent inhibitor of acyl-CoA:cholesterol acyltransferase (**ACAT**) with IC_{50}s of 44 to 190 nM.

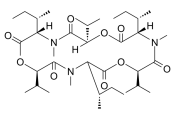


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Enniatin A

Cat. No.: HY-N6702

Enniatin A is a Fusarium mycotoxin. Enniatin A inhibits acyl-CoA: cholesterol acyltransferase (**ACAT**) activity with an IC_{50} of 22 μM in an enzyme assay using rat liver microsomes.

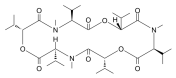


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg

Enniatin B

Cat. No.: HY-N3806

Enniatin B is a Fusarium mycotoxin. Enniatin B inhibits acyl-CoA: cholesterol acyltransferase (**ACAT**) activity with an IC_{50} of 113 μM in an enzyme assay using rat liver microsomes. Enniatins B decreases the activation of **ERK** (p44/p42).

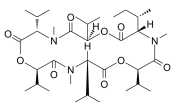


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg

Enniatin B1

Cat. No.: HY-N3807

Enniatin B1 is a Fusarium mycotoxin. Enniatin B1 inhibits acyl-CoA: cholesterol acyltransferase (**ACAT**) activity with an IC_{50} of 73 μM in an enzyme assay using rat liver microsomes. Enniatin B1 crosss the blood-brain barrier.



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

Enniatin complex

Cat. No.: HY-N6706

Enniatin complex is a mixture of cyclohexadepsipeptides isolated largely from Fusarium species of fungi, and has ionophoric, antibiotic, and in vitro hypolipidaemic properties.

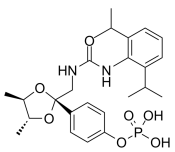
Enniatin complex

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

FCE 28654

Cat. No.: HY-U00369

FCE 28654 is an inhibitor of acylCoA: cholesterol acyltransferase (**ACAT**), weakly inhibiting **ACAT** in microsomes from rabbit aorta and intestine, and monkey liver, with IC_{50}s of 2.55, 1.08 and 5.69 μM, respcetively.

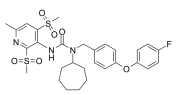


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

FR-190809

Cat. No.: HY-122078

FR-190809 is a potent, nonadrenotoxic, orally efficacious acyl-CoA:cholesterol O-acyltransferase (**ACAT**) inhibitor, with an IC_{50} of 45 nM.

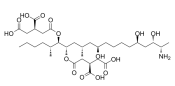


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Fumonisin B1

Cat. No.: HY-N6719

Fumonisin B1 is a mycotoxin produced from Fusarium moniliforme. Fumonisin B1 is a potent inhibitor of **sphingosine N-acyltransferase (ceramide synthase)** and disrupts de novo sphingolipid biosynthesis. Fumonisin B1 is the most abundant and toxic fumonisin.

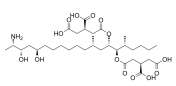


Purity: ≥95.0%
Clinical Data: No Development Reported
Size: 1 mg

Fumonisin B2

Cat. No.: HY-N6723

Fumonisin B2, a mycotoxin produced by Fusarium moniliforme in various grains, is a potent inhibitor of **sphingosine N-acyltransferase (ceramide synthase)** and disrupts de novo sphingolipid biosynthesis.

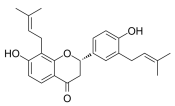


Purity: ≥99.0%
Clinical Data: No Development Reported
Size: 1 mg

Glabrol

Cat. No.: HY-N4193

Glabrol (Compound 1), One isoprenyl flavonoid was isolated from ethanol extract of licorice roots, is a potent and non-competitive **Acyl-coenzyme A: cholesterol acyltransferase (ACAT)** inhibitor with an IC_{50} value of 24.6 μM for rat liver microsomal ACAT activity.

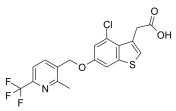


Purity: 99.95%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg

GOAT-IN-1

Cat. No.: HY-103479

GOAT-IN-1 is an inhibitor of **ghrelin O-acyltransferase (GOAT)**, which could be useful for the prophylaxis or treatment of obesity, diabetes, hyperlipidemia, metabolic, non-alcoholic fatty liver, steatohepatitis, sarcopenia, appetite control, alcohol/narcotic dependence,...

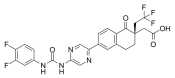


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

GSK2973980A

Cat. No.: HY-111417

GSK2973980A is a potent and selective **Acyl-CoA:diacylglycerol acyltransferase 1 (DGAT1)** inhibitor with an IC_{50} of 3 nM.

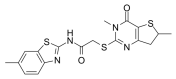


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

IWP-12

Cat. No.: HY-107570

IWP-12 is a potent inhibitor of **porcupine** (PORCN) and inhibits cell-autonomous **Wnt** signaling with an IC_{50} of 15 nM.

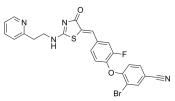


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

JNJ-DGAT2-A

Cat. No.: HY-110381

JNJ-DGAT2-A is a selective diacylglycerol acyltransferase 2 (**DGAT2**) inhibitor with an IC_{50} value of 0.14 μM in human DGAT2-expressing Sf9 insect cell membranes. JNJ-DGAT2-A can be used for the research of triglyceride (TG) synthesis.

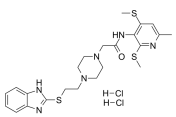


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

K-604 dihydrochloride

Cat. No.: HY-100400A

K-604 dihydrochloride is a potent and selective acyl-CoA:cholesterol acyltransferase 1 (**ACAT-1**) inhibitor with an IC_{50} of 0.45±0.06 μM.

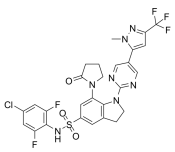


Purity: 98.51%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

MGAT2-IN-1

Cat. No.: HY-101857

MGAT2-IN-1 is an orally active inhibitor of monoacylglycerol acyltransferase (MGAT2) with IC_{50} of 7.8 and 2.4 nM for human and mouse MGAT2, respectively.

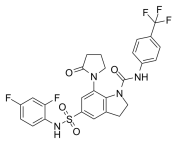


Purity: 99.49%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

MGAT2-IN-2

Cat. No.: HY-U00430

MGAT2-IN-2 is a potent and selective acyl CoA:monoacylglycerol acyltransferase 2 (**MGAT2**) inhibitor with an IC_{50} of 3.4 nM.



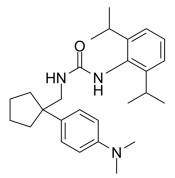
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Nevanimibe

(PD-132301; ATR-101)

Cat. No.: HY-100399

Nevanimibe (PD-132301) is an orally active and selective acyl-coenzyme A:cholesterol O-acyltransferase 1 (**ACAT1**) inhibitor with an EC_{50} of 9 nM. Nevanimibe inhibits ACAT2 with an EC_{50} of 368 nM. Nevanimibe induces cell **apoptosis** and has the potential for adrenocortical cancer.



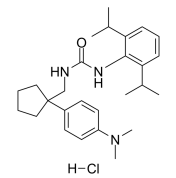
Purity: >98%
Clinical Data: Phase 2
Size: 1 mg, 5 mg

Nevanimibe hydrochloride

(PD-132301 hydrochloride; ATR101 hydrochloride)

Cat. No.: HY-100399A

Nevanimibe hydrochloride (PD-132301 hydrochloride) is an orally active and selective acyl-coenzyme A:cholesterol O-acyltransferase 1 (**ACAT1**) inhibitor with an EC_{50} of 9 nM. Nevanimibe hydrochloride inhibits ACAT2 with an EC_{50} of 368 nM.

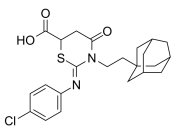


Purity: 98.07%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

OGT-IN-2

Cat. No.: HY-136282

OGT-IN-2 is a potent **O-GlcNAc transferase (OGT)** inhibitor. OGT-IN-2 inhibits sOGT and ncOGT with IC_{50} values of 30 μM and 53 μM, respectively. OGT-IN-2 can be used for the research of articular diseases, such as articular cartilage diseases and osteoarthritis.

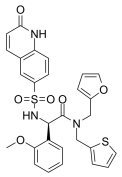


Purity: 98.73%
Clinical Data: No Development Reported
Size: 5 mg

OSMI-1

Cat. No.: HY-119738

OSMI-1 is a cell-permeable **O-GlcNAc transferase (OGT)** inhibitor with an IC_{50} value of 2.7 μM. OSMI-1 inhibits protein O-linked N-acetylglucosamine (O-GlcNAcylation) in several mammalian cell lines without qualitatively altering cell surface N- or O-linked glycans.

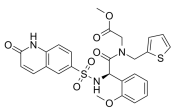


Purity: 99.65%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg

OSMI-2

Cat. No.: HY-135784

OSMI-2 (Compound 1b) is a cell-permeable **O-linked N-acetylglucosamine transferase (OGT)** inhibitor. Cells contain a large nuclear pool of partially spliced **OGT** transcript, and OSMI-2 increases detained intron splicing in cells.

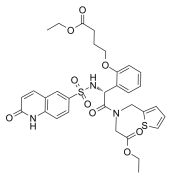


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

OSMI-3

Cat. No.: HY-135785

OSMI-3 (Compound 2b) is a potent, long-lasting, and cell-permeable **O-linked N-acetylglucosamine transferase (OGT)** inhibitor. Cells contain a large nuclear pool of partially spliced **OGT** transcript, and OSMI-3 increases detained intron splicing in cells.

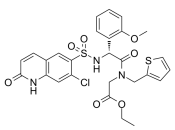


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

OSMI-4

Cat. No.: HY-114361

OSMI-4 is a low nanomolar O-GlcNAc transferase **(OGT)** inhibitor, with an EC_{50} of 3 μM in cells.

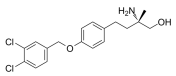


Purity: 99.90%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg

P053

Cat. No.: HY-126015

P053 is a potent, non-competitive and selective **ceramide synthase 1** (**CerS1**) inhibitor wirh an IC_{50} of 0.5μM. P053 acts as an endogenous inhibitor of mitochondrial fatty acid oxidation in muscle. Whole-body adiposity regulator.



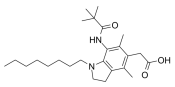
Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Pactimibe

(CS-505 free base)

Cat. No.: HY-100401

Pactimibe (CS-505 free base) is a dual **ACAT1/2** inhibitor with IC_{50}s of 4.9 μM and 3.0 μM, respectively. Pactimibe (CS-505 free base) inhibits **ACAT** with IC_{50}s of 2.0 μM, 2.7 μM, 4.7 μM in the liver, macrophages and THP-1 cells, respectively.



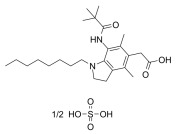
Purity: 98.07%
Clinical Data: Phase 3
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Pactimibe sulfate

(CS-505)

Cat. No.: HY-100401A

Pactimibe sulfate (CS-505) is a dual **ACAT1/2** inhibitor with IC_{50}s of 4.9 μM and 3.0 μM, respectively. Pactimibe sulfate (CS-505) inhibits **ACAT** with IC_{50}s of 2.0 μM, 2.7 μM, 4.7 μM in the liver, macrophages and THP-1 cells, respectively.



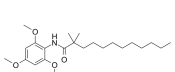
Purity: 98.22%
Clinical Data: Phase 3
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

PD 128042

(CI 976)

Cat. No.: HY-107572

PD 128042 (CI 976) is a potent, orally active, and selective inhibitor of **ACAT** (acyl coenzyme A:cholesterol acyltransferase) with an IC_{50}s of 73 nM. PD 128042 is also a potent **LPAT** (lysophospholipid acyltransferase) inhibitor.



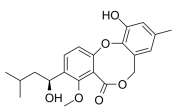
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Penicillide

(Vermixocin A)

Cat. No.: HY-126455

Penicillide (Vermixocin A), isolated from Talaromyces derxii cultivated on rice, shows inhibitory activity against acyl-CoA:cholesterol acyltransferase (**ACAT**).

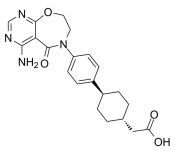


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

PF-04620110

Cat. No.: HY-13009

PF-04620110 is a potent, selective and orally bioavailable **diglyceride acyltransferase-1 (DGAT-1)** inhibitor with an IC_{50} of 19 nM.

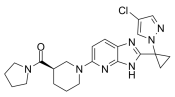


Purity: 99.30%
Clinical Data: Phase 1
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

PF-06424439

Cat. No.: HY-108341

PF-06424439 is an oral, potent and selective imidazopyridine **diacylglycerol acyltransferase 2 (DGAT2)** inhibitor with an IC_{50} of 14 nM.

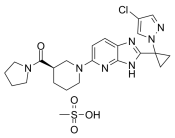


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

PF-06424439 methanesulfonate

Cat. No.: HY-108341A

PF-06424439 methanesulfonate is an oral, potent and selective imidazopyridine **diacylglycerol acyltransferase 2 (DGAT2)** inhibitor with an IC_{50} of 14 nM.

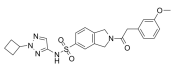


Purity: 99.94%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

PF-06471553

Cat. No.: HY-108339

PF-06471553 is a potent, selective and orally available **monoacylglycerol acyltransferase 3 (MGAT3)** inhibitor, with an IC_{50} of 92 nM.

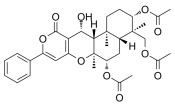


Purity: 98.29%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Phenylpyropene A

Cat. No.: HY-N10234

Phenylpyropene A, a fungal metabolite, is a potent **acyl-CoA: cholesterol acyltransferase (ACAT)** inhibitor with an IC_{50} of 0.8 μM.



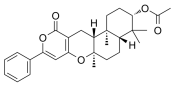
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Phenylpyropene C

(S14-95)

Cat. No.: HY-115734

Phenylpyropene C (S14-95), a **JAK/STAT** pathway inhibitor, can inhibit IFN-γ mediated expression of the reporter gene (IC_{50}=5.4~10.8 μM). Phenylpyropene C also is an inhibitor of **acyl-CoA**, with an IC_{50} of 16.0 μM.



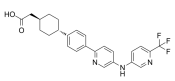
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Pradigastat

(LCQ-908)

Cat. No.: HY-16278

Pradigastat (LCQ-908) is a potent, selective and orally active **diacylglycerol acyltransferase 1 (DGAT1)** inhibitor. Pradigastat has anti-obesity and anti-diabetic effects.

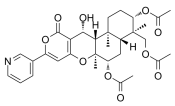


Purity: 98.39%
Clinical Data: Phase 3
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Pyripyropene A

Cat. No.: HY-117832

Pyripyropene A is a potent and selective **sterol O-acyltransferase 2 (SOAT2)/acyl-coenzyme A:cholesterol acyltransferase 2 (ACAT2)** inhibitor, with an IC_{50} of 0.07 μM. Pyripyropene A attenuates hypercholesterolemia and atherosclerosis in vivo.



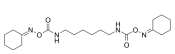
Purity: ≥97.0%
Clinical Data: No Development Reported
Size: 250 μg

RHC 80267

(U-57908)

Cat. No.: HY-107416

RHC 80267 (U-57908) is a potent and selective inhibitor of **diacylglycerol lipase (DAGL)** (with IC_{50} of 4 μM in canine platelets). RHC-80267 inhibits **cholinesterase** activity with an IC_{50} of 4 μM, thereby enhancing the relaxation evoked by **acetylcholine**.

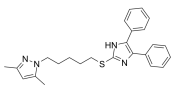


Purity: 99.51%
Clinical Data: No Development Reported
Size: 10 mg, 25 mg, 50 mg, 100 mg

RP 70676

Cat. No.: HY-101576

RP 70676 is a potent inhibitor of **ACAT**, with IC_{50} of 25 and 44 nM for rat and rabbit ACAT.

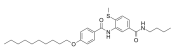


Purity: 99.74%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

RP-64477

Cat. No.: HY-16437

RP-64477 is a potent inhibitor of the cholesterol esterifying enzyme Acyl-coenzyme A:cholesterol O-acyltransferase (**ACAT**).

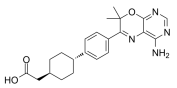


Purity: 99.68%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

T863

Cat. No.: HY-32219

T863 is an orally active, selective and potent **DGAT1 (Acyl-CoA:diacylglycerol acyltransferase 1)** inhibitor that interacts with the acyl-CoA binding site of DGAT1, and inhibits triacylglycerol synthesis in cells.

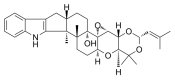


Purity: 99.57%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Terpendole C

Cat. No.: HY-N10224

Terpendole C, produced by Albophoma yamanashiensis, shows potent inhibitory activity against acyl-CoA: cholesterol acyltransferase (**ACAT**).

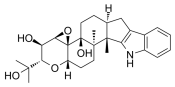


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Terpendole I

Cat. No.: HY-N8331

Terpendole I, a fungal indoloditerpene, is a **ACAT (acyl-CoA: cholesterol acyltransferase)** inhibitor (IC_{50}=145 μM).

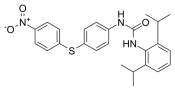


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

VULM 1457

Cat. No.: HY-107571

VULM 1457 is a potent inhibitor of cholesterol acyltransferase (**acyl-CoA**). VULM1457 significantly reduces production and secretion of adrenomedullin (AM) and down-regulates AM receptors on human hepatoblastic cells.

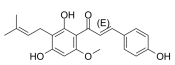


Purity: 99.95%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg

Xanthohumol

Cat. No.: HY-N1067

Xanthohumol is one of the principal flavonoids isolated from hops, the inhibitor of diacylglycerol acetyltransferase (**DGAT**), **COX-1** and COX-2, and shows anti-cancer and anti-angiogenic activities.

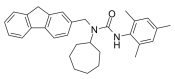


Purity: 99.84%
Clinical Data: Phase 1
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg

YM-750

Cat. No.: HY-107396

YM-750 is a potent acyl-CoA:cholesterol acyltransferase **(ACAT)** inhibitor (IC_{50}=0.18 μM). ACAT catalyzes the formation of cholesteryl esters from cholesterol and long-chain fatty-acyl-coenzyme A.

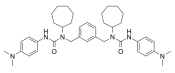


Purity: 99.88%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

YM17E

Cat. No.: HY-101627

YM17E is an inhibitor of acyl CoA:cholesterol acyltransferase (**ACAT**), with IC_{50} of 44 nM in rabbit liver microsomes in vitro.

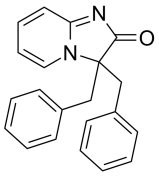


Purity: 97.11%
Clinical Data: No Development Reported
Size: 1 mg

ZSET-845

Cat. No.: HY-U00114

ZSET-845 is a cognitive enhancer which enhances **choline acetyltransferase** activity in the hippocampus in the rat.



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