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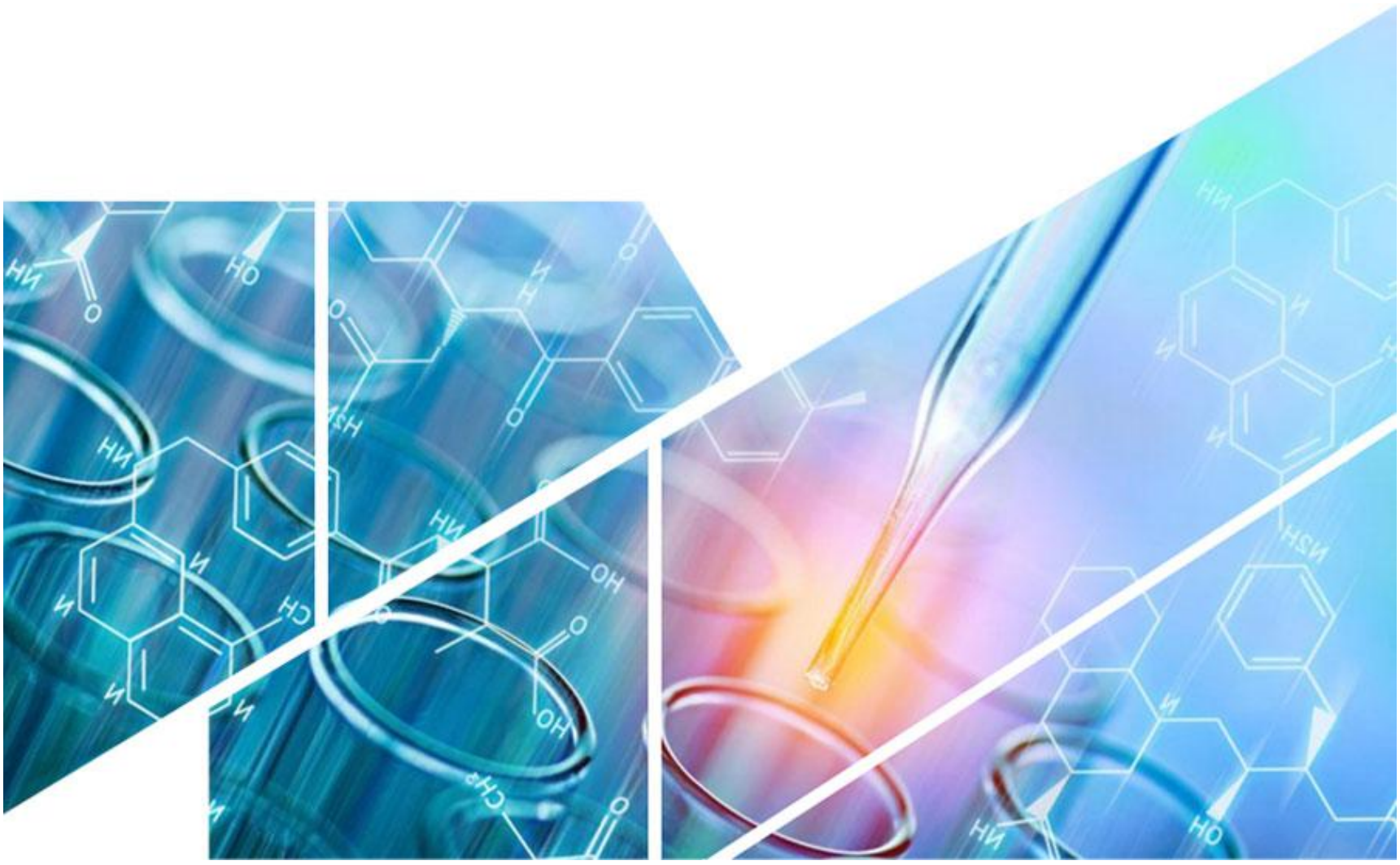
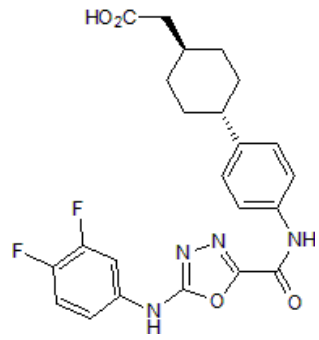
DGAT Inhibitors

(inhibitors, agonists and modulators)



Diglyceride acyltransferase (or O-acyltransferase), DGAT, catalyzes the formation of triglycerides from diacylglycerol and Acyl-CoA. The reaction catalyzed by DGAT is considered the terminal and only committed step in triglyceride synthesis and to be essential for the formation of adipose tissue. The protein is homologous to other membrane-bound O-acyltransferases.

AZD 3988 - CAS 892489-52-0

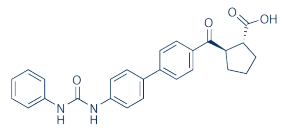


Catalog Number:

Molecular Weight: 456.44 **Molecular Formula:** C23H22F2N4O4

Description: AZD 3988 is a selective and potent diacylglycerol O-acyltransferase (DGAT) enzyme inhibitor with IC50 value of 0.6 nM. It is selective for DGAT-1 over DGAT-2, cytochrome P450 enzymes and Kv11.1 (hERG). It suppresses adipose tissue TAG synthesis and triacylglyceride (TAG) plasma excursion in rats.

A922500 - CAS 959122-11-3

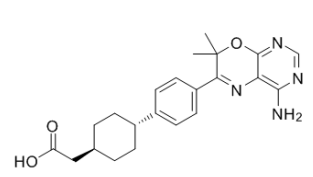


Catalog Number: 959122-11-3

Molecular Weight: 428.48 **Molecular Formula:** C26H24N2O4

Description: A922500 is an inhibitor for human and mouse DGAT-1 with IC50 of 7 nM and 24 nM, respectively, good selectivity over related acyltransferases, hERG, and a panel of anti-targets.

T863 - CAS 701232-20-4

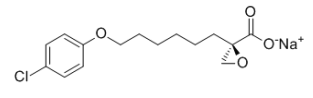


Catalog Number: 701232-20-4

Molecular Weight: 394.47 **Molecular Formula:** C22H26N4O3

Description: T-863 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. It causes weight loss, reduction in serum and liver triglycerides, and improved insulin sensitivity in obese mice.

(R)-((addition))-Etomoxir sodium salt - CAS 828934-41-4

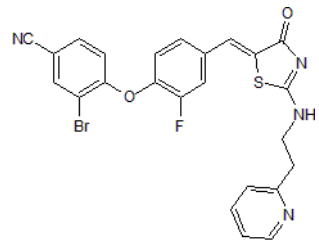


Catalog Number: 828934-41-4

Molecular Weight: 320.74 **Molecular Formula:** C15H18ClNaO4

Description: (R)-((addition))-Etomoxir sodium salt is a potent inhibitor of carnitine palmitoyltransferase I (CPT1), which inhibits β-oxidation in mitochondria. It has shown to inhibit cardiolipin biosynthesis from exogenous fatty acid in H9c2 cells.

JNJ DGAT2-A - CAS 1962931-71-0

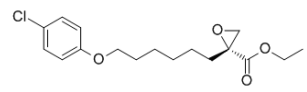


Catalog Number:

Molecular Weight: 523.38 **Molecular Formula:** C24H16BrFN4O2S

Description: JNJ DGAT2-A has been found to be a DGAT2 inhibitor (IC50 = 140 nM) and also a useful intermediate.

Etomoxir - CAS 124083-20-1

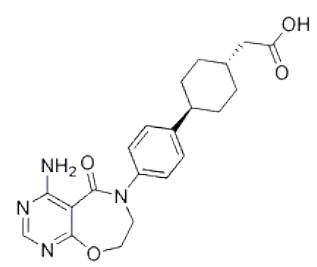


Catalog Number: 124083-20-1

Molecular Weight: 326.82 **Molecular Formula:** C17H23ClO4

Description: An inhibitor of carnitine palmitoyltransferase A (CPT1), which is required for the oexidation of long-chain acyl CoA esters. A strong inhibitor of mitochondrial CPT1 and is a candidate as an anti-diabetic drug.

PF-04620110 - CAS 1109276-89-2

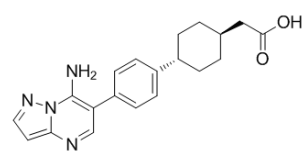


Catalog Number: 1109276-89-2

Molecular Weight: 396.44 **Molecular Formula:** C21H24N4O4

Description: PF-04620110 is an orally active, selective and potent diglyceride acyltransferase-1 (DGAT1) inhibitor with IC50 of 19 nM.

ABT-046 - CAS 1031336-60-3



Catalog Number: 1031336-60-3

Molecular Weight: 350.41 **Molecular Formula:** C20H22N4O2

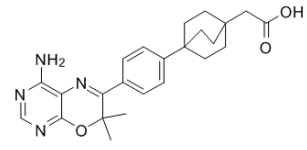
Description: ABT-046 is a potent, selective, and orally bioavailable Diacylglycerol acyltransferase 1 (DGAT-1) inhibitor (IC50=8 nM).

DGAT-1 inhibitor 2 - CAS 942999-61-3

Catalog Number: 942999-61-3

Molecular Weight: 420.5 **Molecular Formula:** C24H28N4O3

Description: DGAT-1 inhibitor 2 is an effective inhibitor of DGAT-1, which is one of two known DGAT enzymes that catalyze the final step in triglyceride synthesis. It is a promising strategy for the treatment of obesity and type 2 diabetes.

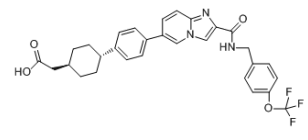


DGAT1-IN-1 - CAS 1449779-49-0

Catalog Number: 1449779-49-0

Molecular Weight: 551.56 **Molecular Formula:** C30H28F3N3O4

Description: Imidazopyridine and imidazothiazole compounds as inhibitors of diacylglycerol o-acyltransferase type 1 enzyme and their preparation.

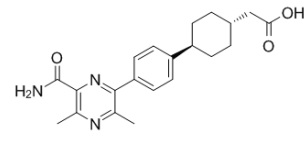


AZD7687 - CAS 1166827-44-6

Catalog Number: 1166827-44-6

Molecular Weight: 367.44 **Molecular Formula:** C21H25N3O3

Description: AZD7687 is a potent and selective DGAT1 inhibitor with an IC50 value of 80 nM (hDGAT1).

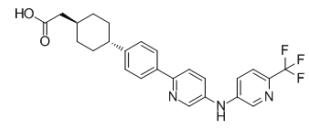


LCQ-908 - CAS 956136-95-1

Catalog Number: 956136-95-1

Molecular Weight: 455.47 **Molecular Formula:** C25H24F3N3O2

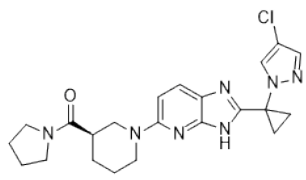
Description: LCQ-908 is a new generation of diacylglycerol acyltransferase 1 (DGAT1) inhibitor as anti-obesity and anti-diabetic agents. It is now in phase II clinical trials.



PF-06424439 - CAS 1469284-78-3

Catalog Number: 1469284-78-3

Molecular Weight: 439.94 **Molecular Formula:** C22H26ClN7O



Description: PF-06424439, a imidazo-pyridin derivative, has been found to be a selective DGAT2 inhibitor that could be probably effective against dyslipidemic rodent in animal models.