JNJ-DGAT2-A

Cat. No.: HY-110381

CAS No.: 1962931-71-0

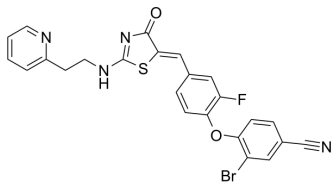
Molecular Formula: $C_{24}H_{16}BrFN_4O_2S$

Molecular Weight: 523.38

Target: Acyltransferase

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.33 mg/mL (6.36 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9107 mL	9.5533 mL	19.1066 mL
	5 mM	0.3821 mL	1.9107 mL	3.8213 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

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[1].

IC_{50} & Target

IC50: 0.14 μM (Sf9 insect cell membranes DGAT2)[1]

In Vitro

JNJ-DGAT2-A (5 μM) inhibits about 99% of recombinant DGAT2 enzymatic activity[1].
JNJ-DGAT2-A (5 μM) inhibits the DGAT activity in HepG2 cell lysates[1].
JNJ-DGAT2-A (0.3125, 0.625, 1.25, 2.5, 5, 10, and 20 μM; 60 min prior to isotope-labeled and additional 2 h after isotope-labeled) dose-dependently inhibits the generation of TG (52:2), TG (54:3), and TG (50:2) using ^{13}C3-D5-glycerol as a substrate in HepG2 cells with IC_{50} values of 0.85 μM, 0.99 μM, and 0.66 μM, respectively[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Qi J, et al. The use of stable isotope-labeled glycerol and oleic acid to differentiate the hepatic functions of DGAT1 and -2. J Lipid Res. 2012 Jun;53(6):1106-16.

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