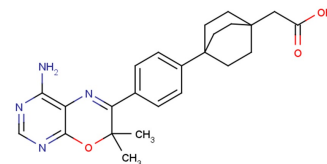


DGAT-1 inhibitor 2

Chemical Properties

CAS No.:	942999-61-3
Formula:	C ₂₄ H ₂₈ N ₄ O ₃
Molecular Weight:	420.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	DGAT-1 inhibitor 2 is an effective DGAT-1 inhibitor; anti-obesity drug. Objective: DGAT-1 acyl-CoA: diacylglycerol acyltransferase 1 (DGAT1) is one of two known DGAT enzymes that catalyze the final step of triglyceride synthesis. The discovery of transgenic mice and pharmacological studies indicate that inhibiting DGAT1 is a promising strategy for treating obesity and type 2 diabetes.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 25 mg/mL (59.45 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.378 mL	11.891 mL	23.781 mL
5 mM	0.476 mL	2.378 mL	4.756 mL
10 mM	0.238 mL	1.189 mL	2.378 mL
50 mM	0.048 mL	0.238 mL	0.476 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Matsuda D, Tomoda H. DGAT inhibitors for obesity. *Curr Opin Investig Drugs*. 2007 Oct;8(10):836-41.
2. Birch, Alan M.; Birtles, Susan; Buckett, Linda K. et al. Discovery of a Potent, Selective, and Orally Efficacious Pyrimidinooxaziny Bicyclooctaneacetic Acid Diacylglycerol Acyltransferase-1 Inhibitor. *Journal of Medicinal Chemistry* (2009), 52(6), 1558-1568.
3. King AJ, Judd AS, Souers AJ. Inhibitors of diacylglycerol acyltransferase: a review of 2008 patents. *Expert Opin Ther Pat*. 2010 Jan;20(1):19-29.
4. Cao J, Zhou Y, Peng H et al. Targeting Acyl-CoA:diacylglycerol acyltransferase 1 (DGAT1) with small molecule inhibitors for the treatment of metabolic diseases. *J Biol Chem*. 2011 Dec 2;286(48):41838-51.

Inhibitors · Natural Compounds · Compound Libraries

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