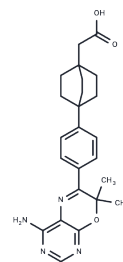


DGAT-1 inhibitor 2

Chemical Properties

CAS No. :	942999-61-3
Formula:	C ₂₄ H ₂₈ N ₄ O ₃
Molecular Weight:	420.5
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	DGAT-1 inhibitor 2 is an effective DGAT-1 inhibitor and anti-obesity drug. DGAT-1 (acyl-CoA: diacylglycerol acyltransferase 1) is one of two known DGAT enzymes that catalyze the final step of triglyceride synthesis. Transgenic mice and pharmacological studies indicate that inhibiting DGAT1 is a promising strategy for treating obesity and type 2 diabetes.
Targets(IC50)	Acyltransferase, Transferase

Solubility Information

Solubility	DMSO: 12 mg/mL (28.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3781 mL	11.8906 mL	23.7812 mL
5 mM	0.4756 mL	2.3781 mL	4.7562 mL
10 mM	0.2378 mL	1.1891 mL	2.3781 mL
50 mM	0.0476 mL	0.2378 mL	0.4756 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Matsuda D, Tomoda H. DGAT inhibitors for obesity. *Curr Opin Investig Drugs*. 2007 Oct;8(10):836-41.

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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.

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.

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