

Product Data Sheet

Product Name: DGAT-1 inhibitor 2

Cat. No.: GC35850

Chemical Properties

Cas. No. 942999-61-3

SMILES O=C(O)CC12CCC(CC1)(CC2)C3=CC=C(C=C3)C4=NC5=C(N)N=CN=C5OC4(C)C

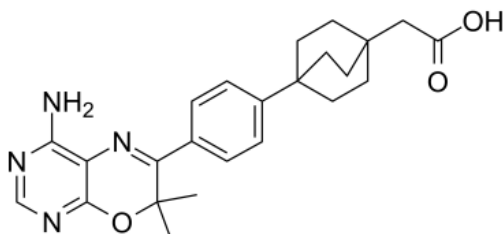
Formula $C_{24}H_{28}N_4O_3$ M.Wt 420.5

Solubility DMSO: 25 mg/mL (59.45 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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. Findings from genetically modified mice as well as pharmacological studies suggest that inhibition of DGAT1 is a promising strategy for the treatment of obesity and type 2 diabetes.

[1]. Matsuda D, Tomoda H. DGAT inhibitors for obesity. Curr Opin Investig Drugs. 2007

Caution: Product has not been fully validated for medical applications. For research use only.

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Oct;8(10):836-41. [2]. Birch, Alan M.; Birtles, Susan; Buckett, Linda K. et al. Discovery of a Potent, Selective, and Orally Efficacious PyrimidinooxazinyI 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.

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