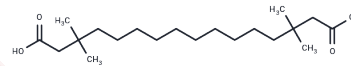


MEDICA16

Chemical Properties

CAS No. :	87272-20-6
Formula:	C ₂₀ H ₃₈ O ₄
Molecular Weight:	342.51
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	MEDICA16 is a selective agonist for GPR40 as well as a partial agonist for GPR120. MEDICA16, an ATP-citrate lyase inhibitor, significantly reduces intracellular TG content in gastrocnemius muscle with an increase in insulin sensitivity.
Targets(IC50)	ATP Citrate Lyase,GPCR

Solubility Information

Solubility	DMSO: 3.43 mg/mL (10.01 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	2.9196 mL	14.5981 mL	29.1962 mL
5 mM	0.5839 mL	2.9196 mL	5.8392 mL
10 mM	0.292 mL	1.4598 mL	2.9196 mL
50 mM	0.0584 mL	0.292 mL	0.5839 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

- Hara T, Hirasawa A, Sun Q, et al. Novel selective ligands for free fatty acid receptors GPR120 and GPR40. *Naunyn Schmiedebergs Arch Pharmacol.* 2009;380(3):247-255.
- Atkinson LL, et al. MEDICA 16 inhibits hepatic acetyl-CoA carboxylase and reduces plasma triacylglycerol levels in insulin-resistant JCR: LA-cp rats. *Diabetes.* 2002;51(5):1548-1555.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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