

Trilaurin

Chemical Properties

CAS No. : 538-24-9

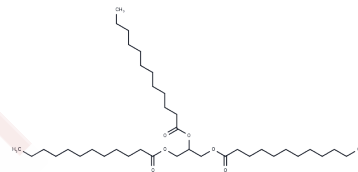
Formula: C39H74O6

Molecular Weight: 639

Store at low temperature

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	Trilaurin (Glyceryl tridodecanoate) is a triacylglycerol found in dietary fats. Trilaurin can be used in cosmetic products as a thickening agent.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.5649 mL	7.8247 mL	15.6495 mL
5 mM	0.313 mL	1.5649 mL	3.1299 mL
10 mM	0.1565 mL	0.7825 mL	1.5649 mL
50 mM	0.0313 mL	0.1565 mL	0.313 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

Christophersen PC, Zhang L, Müllertz A, Nielsen HM, Yang M, Mu H. Solid lipid particles for oral delivery of peptide and protein drugs II--the digestion of trilaurin protects desmopressin from proteolytic degradation. *Pharm Res.* 2014 Sep;31(9):2420-8.

Xu W, Lim SJ, Lee MK. Cellular uptake and antitumour activity of paclitaxel incorporated into trilaurin-based solid lipid nanoparticles in ovarian cancer. *J Microencapsul.* 2013;30(8):755-61.

Fontagné S, Corraze G, Bergot P. Tricaproin, tricaprin and trilaurin are utilized more efficiently than tricapylin by carp (*Cyprinus carpio* L.) larvae. *J Nutr.* 2000 Aug;130(8):2009-15.

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