

1,2-Didecanoylglycerol

Chemical Properties

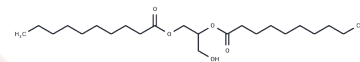
CAS No. : 17863-69-3

Formula: C₂₃H₄₄O₅

Molecular Weight: 400.59

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	1,2-Didecanoylglycerol has functions as bioregulator of protein kinase C in human platelets.
Targets(IC50)	Others,PKC

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4963 mL	12.4816 mL	24.9632 mL
5 mM	0.4993 mL	2.4963 mL	4.9926 mL
10 mM	0.2496 mL	1.2482 mL	2.4963 mL
50 mM	0.0499 mL	0.2496 mL	0.4993 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

- Souza AL, Pavinatto FJ, Caseli L, Volpati D, Miranda PB, Oliveira ON Jr. Chitosan does not inhibit enzymatic action of human pancreatic lipase in Langmuir monolayers of 1,2-didecanoyl-glycerol (DDG). *Colloids Surf B Biointerfaces*. 2014 Nov 1;123:870-7. doi: 10.1016/j.colsurfb.2014.10.040. Epub 2014 Oct 28. PubMed PMID: 25466463.
- Bénarouche A, Point V, Carrière F, Cavalier JF. Using the reversible inhibition of gastric lipase by Orlistat for investigating simultaneously lipase adsorption and substrate hydrolysis at the lipid-water interface. *Biochimie*. 2014 Jun;101:221-31. doi: 10.1016/j.biochi.2014.01.019. Epub 2014 Feb 6. PubMed PMID: 24508576.
- Jemel I, Fendri A, Gargouri Y, Bezzine S. Kinetic properties of dromedary pancreatic lipase: a comparative study on emulsified and monomolecular substrate. *Colloids Surf B Biointerfaces*. 2009 May 1;70(2):238-42. doi: 10.1016/j.colsurfb.2008.12.035. Epub 2008 Dec 31. PubMed PMID: 19195852.
- Amended final report on the safety assessment of glyceryl dilaurate, glyceryl diarachidate, glyceryl dibehenate, glyceryl dierucate, glyceryl dihydroxystearate, glyceryl diisopalmitate, glyceryl diisostearate, glyceryl dilinoleate, glyceryl dimyristate, glyceryl dioleate, glyceryl diricinoleate, glyceryl dipalmitate, glyceryl dipalmitoleate, glyceryl distearate, glyceryl palmitate lactate, glyceryl stearate citrate, glyceryl stearate lactate, and glyceryl stearate succinate. *Int J Toxicol*. 2007;26 Suppl 3:1-30. doi: 10.1080/10915810701663143. Review. PubMed PMID: 18273450.

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