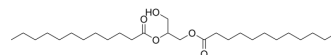


1,2-Dilaurin

Cat. No.:	HY-W127391
CAS No.:	17598-94-6
Molecular Formula:	C ₂₇ H ₅₂ O ₅
Molecular Weight:	456.7
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (109.48 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1896 mL	10.9481 mL	21.8962 mL
	5 mM	0.4379 mL	2.1896 mL	4.3792 mL
	10 mM	0.2190 mL	1.0948 mL	2.1896 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

1,2-Dilaurin is a diacylglycerol containing lauric acid at the sn-1 and sn-2 positions. It has been used as an internal standard for the quantification of diglycerides in rat desheathed sciatic nerves. [1] Monomolecular films containing 1,2-dilauroyl-rac-glycerol have been used as substrates to measure surface pressure and the effect of pancreatic procolipase and colipase on porcine pancreatic lipase activity. [2] References: [1]. Zhu, X. and Eichberg, J. 1,2-Diacylglycerol content and its arachidonyl-containing molecular species are reduced in the sciatic nerve of streptozotocin-induced diabetic rats. *J. Neurochemistry*, 55(3), 1087-1090 (1990).[2]. Wieloch, T., Borgstr m, B., Piéroni, G. et al. Porcine trypsinogen and its trypsin-activated form: lipid binding and lipase activation on monomolecular membranes. *FEBS Express*. 128(2), 217-220 (1981).

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- [1]. Zhu X, et al. 1,2-diacylglycerol content and its arachidonyl-containing molecular species are reduced in sciatic nerve from streptozotocin-induced diabetic rats. *J Neurochem*. 1990 Sep;55(3):1087-90.
- [2]. Wieloch T, et al. Porcine pancreatic procolipase and its trypsin-activated form: lipid binding and lipase activation on monomolecular films. *FEBS Lett*. 1981 Jun 15;128(2):217-20.

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

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