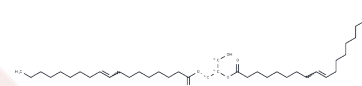


1,2-Dioleoyl-rac-glycerol-13C3

Chemical Properties

CAS No. :	1173097-49-8
Formula:	C39H72O5
Molecular Weight:	623.977
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-Dioleoyl-rac-glycerol-13C3 is intended for use as an internal standard for the quantification of 1,2-Dioleoyl-rac-glycerol (T40101) by GC- or LC-MS. 1,2-dioleoyl-rac-glycerol is a diacylglycerol that contains oleic acid at the sn-1 and sn-2 positions. It effectively binds the C1 domain to activate conventional protein kinase C forms and serves as a substrate for diacylglycerol kinases and multisubstrate lipid kinase.1,2,3
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Solubility Information

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

	1mg	5mg	10mg
1 mM	1.6026 mL	8.0131 mL	16.0262 mL
5 mM	0.3205 mL	1.6026 mL	3.2052 mL
10 mM	0.1603 mL	0.8013 mL	1.6026 mL
50 mM	0.0321 mL	0.1603 mL	0.3205 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

- Yamaguchi, Y., Shirai, Y., Matsubara, T., et al. Phosphorylation and up-regulation of diacylglycerol kinase γ via its interaction with protein kinase C γ . *J. Biol. Chem.* 281(42), 31627-31637 (2006).
- Zhou, Q.Z., Raynor, R.L., Wood, M.G., Jr., et al. Structure-activity relationship of synthetic branched-chain distearoylglycerol (distearin) as protein kinase C activators. *Biochemistry* 27(19), 7361-7365 (1988).
- Epand, R.M., Shulga, Y.V., Timmons, H.C., et al. Substrate chirality and specificity of diacylglycerol kinases and the multisubstrate lipid kinase. *Biochemistry* 46(49), 14225-14231 (2007).

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