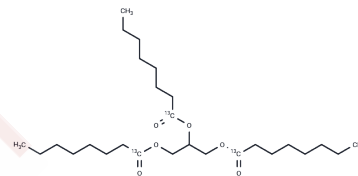


## 1,2,3-Trioctanoyl-rac-glycerol-13C3

### Chemical Properties

CAS No. :	65402-55-3
Formula:	C27H50O6
Molecular Weight:	473.668
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	1,2,3-Trioctanoyl-rac-glycerol-13C3 is intended for use as an internal standard for the quantification of 1,2,3-trioctanoyl-rac-glycerol by GC- or LC-MS. 1,2,3-Trioctanoyl-rac-glycerol is a triacylglycerol that contains octanoic acid at the sn-1, sn-2, and sn-3 positions. Dietary administration of 1,2,3-trioctanoyl-rac-glycerol increases hippocampal levels of the glycolytic metabolites glucose 6-phosphate, fructose 6-phosphate, and $\beta$ -hydroxybutyrate and the seizure threshold in the 6 Hz psychomotor seizure test in mice. <sup>1</sup> Formulations containing 1,2,3-trioctanoyl-rac-glycerol have been used in cosmetic products as thickening and skin-conditioning agents.
Targets(IC50)	Endogenous Metabolite

### Solubility Information

Solubility	DMSO: 30 mg/mL (63.34 mM), Sonication is recommended. DMF: 30 mg/mL (63.34 mM), Sonication is recommended. Ethanol: 20 mg/mL (42.22 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	2.1112 mL	10.5559 mL	21.1117 mL
5 mM	0.4222 mL	2.1112 mL	4.2223 mL
10 mM	0.2111 mL	1.0556 mL	2.1112 mL
50 mM	0.0422 mL	0.2111 mL	0.4222 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

McDonald, T.S., Tan, K.N., Hodson, M.P., et al. Alterations of hippocampal glucose metabolism by even versus uneven medium chain triglycerides. J. Cereb. Blood Flow Metab. 34(1), 153-160 (2014).

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