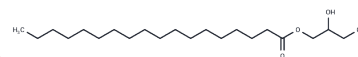


## 1-Stearoyl-rac-glycerol

## Chemical Properties

CAS No. :	123-94-4
Formula:	C <sub>21</sub> H <sub>42</sub> O <sub>4</sub>
Molecular Weight:	358.56
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	1-Stearoyl-rac-glycerol is a monoacylglycerol that contains stearic acid at the sn-1 position. 1-Stearoyl-rac-glycerol levels are decreased in tumor tissue in a mouse model of azoxymethane-induced colorectal carcinogenesis. 1-Stearoyl-rac-glycerol has been used in the composition of transfersomes for transdermal delivery of doxorubicin in rats, leading to doxorubicin accumulation in lymph nodes, spleen, and heart.
Targets(IC50)	Others

## Solubility Information

Solubility	Chloroform: 50 mg/mL (139.45 mM), Sonication is recommended. DMSO: 10 mg/mL (27.89 mM), Sonication and heating 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	2.7889 mL	13.9447 mL	27.8893 mL
5 mM	0.5578 mL	2.7889 mL	5.5779 mL
10 mM	0.2789 mL	1.3945 mL	2.7889 mL
50 mM	0.0558 mL	0.2789 mL	0.5578 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

Mu H, Holm R. Solid lipid nanocarriers in drug delivery: characterization and design. *Expert Opin Drug Deliv.* 2018 Aug;15(8):771-785.

Agosti E, et al. Navigating the Nose-to-Brain Route: A Systematic Review on Lipid-Based Nanocarriers for Central Nervous System Disorders. *Pharmaceutics.* 2024 Feb 27;16(3):329.

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