

## 1,3-Dioleoyl-2-palmitoylglycerol

## Chemical Properties

|                   |                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No. :         | 1716-07-0                                                                                                                                                                                                             |
| Formula:          | C55H102O6                                                                                                                                                                                                             |
| Molecular Weight: | 859.40                                                                                                                                                                                                                |
| Storage:          | Keep away from direct sunlight,Store at low temperature,Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |

## Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | 1,3-Dioleoyl-2-palmitoylglycerol is a major triacylglycerol incorporated into infant formula formulations. 1,3-Dioleoyl-2-palmitoylglycerol is relevant for investigations involving lipid digestion, infant nutrition biochemistry, gastrointestinal lipid absorption, and metabolic processing of structured triacylglycerols in developmental research settings. |
| Targets(IC50) | Others                                                                                                                                                                                                                                                                                                                                                              |

## Solubility Information

|            |                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 80 mg/mL (93.09 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 1.1636 mL | 5.818 mL  | 11.636 mL |
| 5 mM  | 0.2327 mL | 1.1636 mL | 2.3272 mL |
| 10 mM | 0.1164 mL | 0.5818 mL | 1.1636 mL |
| 50 mM | 0.0233 mL | 0.1164 mL | 0.2327 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

Qin XL, et al. Preparation and characterization of 1,3-dioleoyl-2-palmitoylglycerol. J Agric Food Chem. 2011 May 25;59(10):5714-9.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481