

## 2-Oleoylglycerol

## Chemical Properties

CAS No. : 3443-84-3

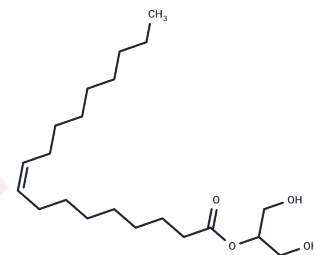
Formula: C<sub>21</sub>H<sub>40</sub>O<sub>4</sub>

Molecular Weight: 356.54

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	2-Oleoylglycerol is a lipid found in palm kernel, sunflower seed and rice bran. 2-Oleoylglycerol acts as a GPR119 agonist with neuroprotective effects and induces secretion of glucagon-like peptide 1 (GLP-1). 2-Oleoylglycerol is used in the modelling of non-alcoholic steatohepatitis.
Targets(IC50)	NF-κB, Glucagon Receptor, GPCR, TGF-beta/Smad

## Solubility Information

Solubility	DMSO: 5 mg/mL (14.02 mM), Sonication is recommended. DMF: 5 mg/mL (14.02 mM), Sonication is recommended. Ethanol: 15 mg/mL (42.07 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	2.8047 mL	14.0237 mL	28.0473 mL
5 mM	0.5609 mL	2.8047 mL	5.6095 mL
10 mM	0.2805 mL	1.4024 mL	2.8047 mL
50 mM	0.0561 mL	0.2805 mL	0.5609 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

- Ghafouri N, et al. Inhibition of monoacylglycerol lipase and fatty acid amide hydrolase by analogues of 2-arachidonoylglycerol. *Br J Pharmacol.* 2004 Nov;143(6):774-84.
- Hansen KB, et, al. 2-Oleoyl glycerol is a GPR119 agonist and signals GLP-1 release in humans. *J Clin Endocrinol Metab.* 2011 Sep;96(9):E1409-17.
- Woodhams, S.G., Wong, A., Barrett, D.A., et al. Spinal administration of the monoacylglycerol lipase inhibitor JZL184 produces robust inhibitory effects on nociceptive processing and the development of central sensitization in the rat. *Brit.J.Pharmacol.* 167, 1609-1619 (2012).
- Hansen, K.B., Rosenkilde, M.M., Knop, F.K., et al. 2-Oleoyl glycerol is a GRP119 agonist and signals GLP-1 release in humans. *Journal of Clinical Endocrinology and Metabolism* 96(9), E1409-E1417 (2011).

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