

2-Palmitoylglycerol

Chemical Properties

CAS No. : 23470-00-0

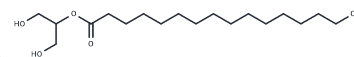
Formula: C19H38O4

Molecular Weight: 330.5

Store at low temperature

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	2-Palmitoylglycerol is an analog of 2-arachidonoylglycerol (2-AG) that does not bind positively to cannabinoid receptors and antagonizes 2-AG-mediated depolarization-induced suppression of excitation (DSE).
Targets(IC50)	Others
In vitro	2-Palmitoylglycerol can slightly induce internalization of CB ₁ receptors at concentrations as low as 300 nM. In depolarization-induced suppression of excitation (DSE) experiments, 2-Palmitoylglycerol acts as a weak antagonist [1].

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, 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	3.0257 mL	15.1286 mL	30.2572 mL
5 mM	0.6051 mL	3.0257 mL	6.0514 mL
10 mM	0.3026 mL	1.5129 mL	3.0257 mL
50 mM	0.0605 mL	0.3026 mL	0.6051 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

Natalia Murataeva, et al. Where's my entourage? The curious case of 2-oleoylglycerol, 2-linolenoylglycerol, and 2-palmitoylglycerol. Pharmacol Res. 2016 Aug;110:173-180.

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