

Palmitoylethanolamide

Chemical Properties

CAS No. : 544-31-0

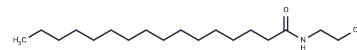
Formula: C18H37NO2

Molecular Weight: 299.49

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	Palmitoylethanolamide (Impulsin) is an endogenously fatty acid amide. It has a role as an anti-inflammatory drug, an antihypertensive agent, a neuroprotective agent and an anticonvulsant. Upon administration, palmitoylethanolamide may inhibit the release of pro-inflammatory mediators from activated mast cells.
Targets(IC50)	Endogenous Metabolite, Influenza Virus, PPAR

Solubility Information

Solubility	DMSO: 1.27 mg/mL (4.24 mM), Sonication is recommended. Ethanol: 7.5 mg/mL (25.04 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	3.339 mL	16.695 mL	33.3901 mL
5 mM	0.6678 mL	3.339 mL	6.678 mL
10 mM	0.3339 mL	1.6695 mL	3.339 mL
50 mM	0.0668 mL	0.3339 mL	0.6678 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

Lo Verme J, et al. Mol Pharmacol. 2005, 67(1):15-9.

Raso GM, et al. J Neuroendocrinol. 2011, 23(7):591-600.

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