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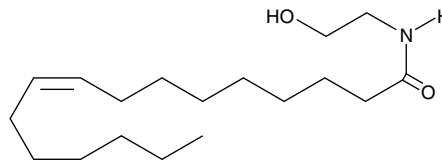
Product Information



Palmitoleoyl Ethanolamide

Item No. 10965

CAS Registry No.: 94421-67-7
Formal Name: N-(2-hydroxyethyl)-9Z-hexadecenamide
Synonym: POEA
MF: C₁₈H₃₅NO₂
FW: 297.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that palmitoleoyl ethanolamide (POEA) be stored as supplied at -20°C. It should be stable for at least two years.

POEA is supplied as a crystalline solid. A stock solution may be made by dissolving the POEA in the solvent of choice. POEA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of POEA in these solvents is approximately 100 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of POEA can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of POEA in PBS, pH 7.2, is less than 100 µg/ml. We do not recommend storing the aqueous solution for more than one day.

N-acylethanolamines (NAEs) are lipid-derived signaling compounds. For example, arachidonoyl ethanolamide is an endogenous cannabinoid (CB) that activates the CB₁ and CB₂ receptors. POEA is an NAE that is produced endogenously from palmitoleic acid.¹ Unlike arachidonoyl ethanolamide and palmitoyl ethanolamide, POEA does not have antinociceptive effects, as assessed in the formalin-evoked pain model.²

References

1. Lucanic, M., Held, J.M., Vantipalli, M.C., *et al.* N-acylethanolamine signalling mediates the effect of diet on lifespan in *Caenorhabditis elegans*. *Nature* **473**(7346), 226-9 (2011).
2. Calignano, A., LaRana, G., and Piomelli, D. Antinociceptive activity of the endogenous fatty acid amide, palmitylethanolamide. *Eur. J. Pharmacol.* **419**(2-3), 191-198 (2001).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10965

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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