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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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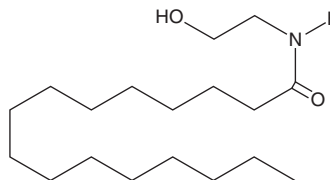
PRODUCT INFORMATION



Palmitoyl Ethanolamide

Item No. 90350

CAS Registry No.: 544-31-0
Formal Name: N-(2-hydroxyethyl)-hexadecanamide
Synonyms: Palmidrol, PEA
MF: C₁₈H₃₇NO₂
FW: 299.5
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Palmitoyl ethanolamide (PEA) is supplied as a crystalline solid. A stock solution may be made by dissolving the PEA in the solvent of choice. PEA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of PEA in these solvents is approximately 2, 5, and 10 mg/ml, respectively.

PEA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PEA should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. PEA has a solubility of approximately 10 µg/ml in a 1:10 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

PEA is an endocannabinoid which has been shown to significantly elevate cAMP in cells expressing CB₂ receptors. However, its affinity for CB₂ receptors is low, at about 10 µM. CB₁ receptors have no appreciable affinity for PEA.¹

Reference

1. Devane, W.A., Hanus, L., Breuer, A., *et al.* Isolation and structure of a brain constituent that binds to the cannabinoid receptor. *Science* **258**, 1946-1949 (1992).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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