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Produktinformation

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- Expressversand

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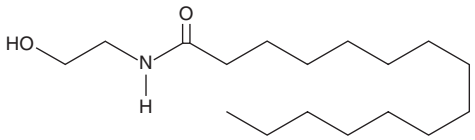
PRODUCT INFORMATION

Pentadecanoyl Ethanolamide

Item No. 9001740

CAS Registry No.: 53832-58-9
Formal Name: N-(2-hydroxyethyl)-pentadecanamide
MF: $C_{17}H_{35}NO_2$
FW: 285.5
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

Pentadecanoyl ethanolamide is supplied as a crystalline solid. A stock solution may be made by dissolving the pentadecanoyl ethanolamide in the solvent of choice, which should be purged with an inert gas. Pentadecanoyl ethanolamide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of pentadecanoyl ethanolamide in these solvents is approximately 12.5, 3.3, and 5 mg/ml, respectively.

Pentadecanoyl ethanolamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, pentadecanoyl ethanolamide should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Pentadecanoyl ethanolamide has a solubility of approximately 0.33 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Pentadecanoyl ethanolamide is a member of the family of fatty N-acyl ethanolamines collectively called endocannabinoids.[1-5] The specific role and relative importance of this ethanolamine metabolite have not been determined.

References

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5. Mulder, A.M. and Cravatt, B.F. Endocannabinoid metabolism in the absence of fatty acid amide hydrolase (FAAH): Discovery of phosphorylcholine derivatives of N-acyl ethanolamines. *Biochemistry* **45(38)**, 11267-11277 (2006).

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