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- Mindermengenzuschlag
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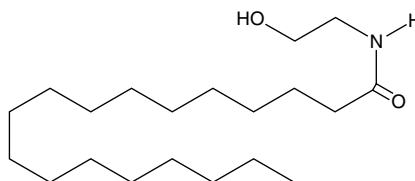
Product Information



Stearoyl Ethanolamide

Item No. 90245

CAS Registry No.: 111-57-9
Formal Name: N-(2-hydroxyethyl) octadecanamide
Synonyms: Ceramid, Stearic Acid Ethanolamide
MF: C₂₀H₄₁NO₂
FW: 327.6
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

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

Stearoyl ethanolamide is supplied as a crystalline solid. A stock solution may be made by dissolving the stearoyl ethanolamide in an organic solvent purged with an inert gas. Stearoyl ethanolamide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of stearoyl ethanolamide is approximately 2 mg/ml in ethanol and DMF and approximately 100 µg/ml in DMSO.

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 stearoyl ethanolamide can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of stearoyl ethanolamide in PBS (pH 7.2) is approximately 100 µg/ml. We do not recommend storing the aqueous solution for more than one day.

Stearoyl ethanolamide is a member of the family of fatty N-acyl ethanolamines collectively called anandamides. Stearoyl ethanolamide is the most abundant of several fatty acid ethanolamides produced by the PLD hydrolysis of mouse neuroblastoma cell membrane phospholipids.¹ The specific role of stearoyl ethanolamide in the cannabinergic system is still to be elucidated.

Reference

1. Di Marzo, V., De Petrocellis, L., Sepe, N., *et al.* Biosynthesis of anandamide and related acylethanolamides in mouse J774 macrophages and N18 neuroblastoma cells. *Biochem. J.* **316**, 977-984 (1996).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90245

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