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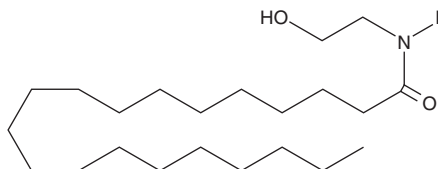
Product Information



Arachidoyl Ethanolamide

Catalog No. 10005765

CAS Registry No.: 94421-69-9
Formal Name: N-(2-hydroxyethyl)-eicosanamide
Synonym: N-Arachidoylethanolamine
MF: C₂₂H₄₅NO₂
FW: 355.6
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

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

Arachidoyl ethanolamide is supplied as a crystalline solid. A stock solution may be made by dissolving the arachidoyl ethanolamide in an organic solvent purged with an inert gas. Arachidoyl ethanolamide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of arachidoyl ethanolamide in these solvents is approximately 30, 20, and 10 mg/ml, respectively.

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 arachidoyl ethanolamide can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of arachidoyl ethanolamide in PBS (pH 7.2) is approximately 0.15 mg/ml. We do not recommend storing the aqueous solution for more than one day.

The endocannabinoids^{1,2} present a rich system of central cannabinoid (CB₁), peripheral cannabinoid (CB₂), and non-CB receptor-mediated pharmacology that has stimulated research in many fields including memory, weight loss and appetite, neurodegeneration, tumor surveillance, analgesia, and inflammation. Arachidoyl ethanolamide is one of the saturated fatty acyl ethanolamides devoid of classical (CB₁/CB₂) activity. Arachidoyl ethanolamide does not bind to the murine CB₁ receptor³ and does not compete with anandamide as a substrate for the endocannabinoid hydrolytic enzyme fatty acid amide hydrolase.⁴ Non-CB receptor-mediated pharmacology of the saturated ethanolamides is still being elucidated.⁵

References

1. Martin, B.R., Mechoulam, R., and Razdan, R.K. Discovery and characterization of endogenous cannabinoids. *Life Sci.* **65**, 573-595 (1999).
2. Pertwee, R.G. Pharmacology of cannabinoid receptor ligands. *Current Medicinal Chemistry* **6**, 635-664 (1999).
3. Sheskin, T., Hanus, L., Slager, J., *et al.* Structural requirements for binding of anandamide-type compounds to the brain cannabinoid receptor. *J. Med. Chem.* **40**, 659-667 (1997).
4. Desarnaud, F., Cadas, H., and Piomelli, D. Anandamide amidohydrolase activity in rat brain microsomes. Identification and partial characterization. *J. Biol. Chem.* **270**(11), 6030-6035 (1995).
5. Smart, D., Jonsson, K.-O., Vandevoorde, S., *et al.* 'Entourage' effects of N-acyl ethanolamines at human vanilloid receptors. Comparison of effects upon anandamide-induced vanilloid receptor activation and upon anandamide metabolism. *Br. J. Pharmacol.* **136**, 452-458 (2002).

Related Products

Arachidonoyl *p*-Nitroaniline - Cat. No. 10168 • Arachidonoyl Ethanolamide Phosphate - Cat. No. 10180 • Arachidonoyl Ethanolamide - Cat. No. 90050

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

MATERIAL 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 Material Safety Data Sheet, which has been sent via email to your institution.

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