Docosanoyl Ethanolamide
Catalog No. 10005823

CAS Registry No.: 94109-05-4
Formal Name: N-(2-hydroxyethyl)-docosanamide
MF: C_{24}H_{49}NO_2
FW: 383.7
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures

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

Docosanoyl ethanolamide is supplied as a crystalline solid. A stock solution may be made by dissolving the docosanoyl ethanolamide in an organic solvent purged with an inert gas. Docosanoyl ethanolamide is soluble in the organic solvent chloroform. The solubility of docosanoyl ethanolamide in chloroform is approximately 0.3 mg/ml.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

The endocannabinoids 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.1,2 Docosanoyl ethanolamide is a saturated N-acylethanolamide. Non-CB receptor-mediated pharmacology of the saturated ethanolamides is still being elucidated.3 Other studies indicate they may have a role in the functioning of ion channels.4

References

Related Products
Arachidonoyl Ethanolamide - Cat. No. 90050 • N-Docosanoyl Taurine - Cat. No. 10007288 • Docosahexaenoyl Ethanolamide - Cat. No. 10007534

WARNING: This product is not intended or approved for human or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death.

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 under separate cover to the MSDS supervisor at your institution.

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