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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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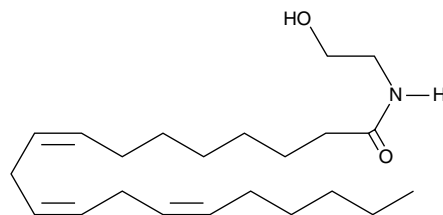
Product Information



Dihomo- γ -Linolenoyl Ethanolamide

Item No. 90235

CAS Registry No.: 150314-34-4
Formal Name: N-(2-hydroxyethyl)-8Z,11Z,14Z-eicosatrienamide
MF: C₂₂H₃₉NO₂
FW: 349.6
Purity: \geq 98%
Stability: \geq 1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that dihomogamma-linolenoyl ethanolamide be stored as supplied at -20°C. It should be stable for at least one year.

Dihomogamma-linolenoyl ethanolamide is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO or dimethyl formamide purged with an inert gas can be used. The solubility of dihomogamma-linolenoyl ethanolamide is approximately 30 and 10 mg/ml, respectively.

Dihomogamma-linolenoyl ethanolamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of dihomogamma-linolenoyl ethanolamide should be diluted with the aqueous buffer of choice. Dihomogamma-linolenoyl ethanolamide has a solubility of approximately 8 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.

Dihomogamma-linolenoyl ethanolamide is an endocannabinoid containing dihomogamma-linoleate in place of the arachidonate moiety of AEA. Dihomogamma-linolenoyl ethanolamide binds to recombinant human CB₁ and CB₂ receptor with K_i values of 857 and 598 nM, respectively.¹ Its specific role and relative importance as a cannabinergic neurotransmitter have not been elucidated.²

References

1. Felder, C.C., Joyce, K.E., Briley, E.M., *et al.* Comparison of the pharmacology and signal transduction of the human cannabinoid CB₁ and CB₂ receptors. *Mol. Pharmacol.* **48**, 443-450 (1995).
2. Hanus, L., Gopher, A., Almog, S., *et al.* Two new unsaturated fatty acid ethanolamides in brain that bind to the cannabinoid receptor. *J. Med. Chem.* **36**, 3032-3034 (1993).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90235

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

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

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