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Zuschläge

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- Gefahrgutzuschlag
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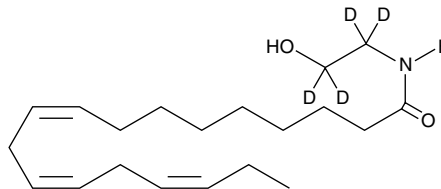
Product Information



α -Linolenoyl Ethanolamide-d₄

Item No. 9001841

CAS Registry No.: 1451194-68-5
Formal Name: N-(2-hydroxyethyl-1,1',2,2'-d₄)-octadeca-9Z,12Z,15Z-trienamide
MF: C₂₀H₃₁D₄NO₂
FW: 325.5
Chemical Purity: ≥98% α -linolenoyl ethanolamide
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₄); ≤1% d₀
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

α -Linolenoyl ethanolamide-d₄ contains four deuterium atoms at the 1, 1', 2, and 2' positions. It is intended for use as an internal standard for the quantification of α -linolenoyl ethanolamide by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that α -linolenoyl ethanolamide-d₄ be stored as supplied at -20°C. It should be stable for at least one year.

α -Linolenoyl ethanolamide-d₄ 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 and dimethyl formamide purged with an inert gas can be used. The solubility of α -linolenoyl ethanolamide-d₄ in these solvents is approximately 30 and 10 mg/ml, respectively.

α -Linolenoyl ethanolamide-d₄ is used as an internal standard for the quantification of α -linolenoyl ethanolamide-d₄ by stable isotope dilution MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

α -Linolenoyl ethanolamide (Item No. 90215) is an endocannabinoid containing α -linolenic acid in place of the arachidonate moiety of AEA. α -Linolenoyl ethanolamide has been detected in porcine brain, but its specific role and relative importance as a cannabinergic neurotransmitter have not been elucidated.¹

Reference

1. 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/9001841

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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