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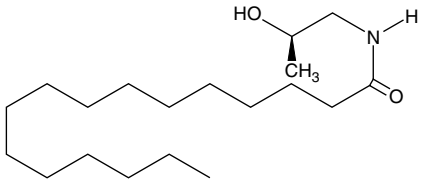
Product Information

R-Palmitoyl-(2-methyl) Ethanolamide

Item No. 90357

CAS Registry No.: 179951-56-5
Formal Name: (R)-N-(2-hydroxypropyl)-hexadecanamide
Synonym: RP-2ME
MF: $C_{19}H_{39}NO_2$
FW: 313.5
Purity: ≥98%
Stability: ≥2 years at 4°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that R-palmitoyl-(2-methyl) ethanolamide (RP-2ME) be stored as supplied at 4°C. It should be stable for at least two years.

RP-2ME is supplied as a crystalline solid. A stock solution may be made by dissolving the RP-2ME in an organic solvent purged with an inert gas. RP-2ME is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of RP-2ME in these solvents is approximately 25, 4, and 10 mg/ml, respectively.

RP-2ME is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, RP-2ME should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. RP-2ME has a solubility of approximately 10 µg/ml in a 1:10 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

RP-2ME is a metabolically stable analog of the anti-inflammatory endogenous cannabinoid (CB), palmitoyl ethanolamide (PEA). PEA is an endogenous CB found in brain, liver, and other mammalian tissues.[1] PEA has also been isolated from egg yolk, and found to have anti-anaphylactic and anti-inflammatory activity *in vitro*.[2] RP-2ME is a synthetic analog of PEA which incorporates an (R)-methyl group vicinal to the alcohol on the ethanolamine moiety. RP-2ME inhibits FAAH-mediated hydrolysis of AEA by 54% at a concentration of 100 µM.[3] It also has weak CB receptor affinity, in that 100 µM inhibits agonist binding (1 nM CP 55,940 or WIN 55,212-2) only 26% and 15.5% at the human CB_1 and CB_2 receptors, respectively.[3]

References

1. Bachur, N.R., Masek, K., Melmon, K.L., *et al.* Fatty acid amides of ethanolamine in mammalian tissues. *J. Biol. Chem.* **240**, 1019-1024 (1965).
2. Ganley, O.H., Graessle, O.E., Robinson, H.J., *et al.* Anti-inflammatory activity of compounds obtained from egg yolk, peanut oil, and soybean lecithin. *J. Lab. Clin. Med.* **51**, 709-714 (1958).
3. Jonsson, K.-O., Vandevoorde, S., Lambert, D.M., *et al.* Effects of homologues and analogues of palmitoylethanolamide upon the inactivation of the endocannabinoid anandamide. *Br. J. Pharmacol.* **133**, 1263-1275 (2001).

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