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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

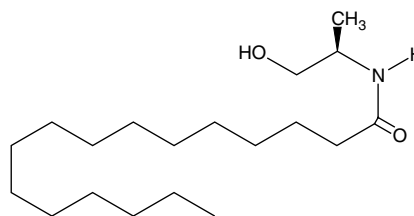
Product Information



R-Palmitoyl-(1-methyl) Ethanolamide

Item No. 90353

CAS Registry No.: 142128-47-0
Formal Name: N-(2-hydroxy-1R-methylethyl)-hexadecanamide
MF: C₁₉H₃₉NO₂
FW: 313.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that R-palmitoyl-(1-methyl) ethanolamide be stored as supplied at 4°C. It should be stable for at least two years.

R-palmitoyl-(1-methyl) ethanolamide is supplied as a crystalline solid. A stock solution may be made by dissolving the R-palmitoyl-(1-methyl) ethanolamide in an organic solvent purged with an inert gas. R-palmitoyl-(1-methyl) ethanolamide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of R-palmitoyl-(1-methyl) ethanolamide in these solvents is at least 10, 25, and 3.3 mg/ml respectively.

R-palmitoyl-(1-methyl) ethanolamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, R-palmitoyl-(1-methyl) ethanolamide should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. R-palmitoyl-(1-methyl) ethanolamide has a solubility of 1 µg/ml in a 1:7 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Palmitoyl ethanolamide (PEA) is an endogenous cannabinoid 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 R-palmitoyl-(1-methyl) ethanolamide is a synthetic analog of PEA which incorporates an (R)-methyl group vicinal to the alcohol on the ethanolamine moiety. The analogous modification to arachidonyl ethanolamide (AEA) protects the molecule from hydrolysis by fatty acid amide hydrolase (FAAH). This leads to prolonged duration of action and enhanced potency *in vivo*.³ R-palmitoyl-(1-methyl) ethanolamide would be expected to show enhancement of the inhibitory action of PEA on mast cells and other cells known to express the CB₂ receptor. However, there are no published studies on the use of this compound to date.

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. Abadji, V., Lin, S., Taha, G., *et al.* (R)-Methanandamide: A chiral novel anandamide possessing higher potency and metabolic stability. *J. Med. Chem.* **37**, 1889-1893 (1994).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90353

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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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com