SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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

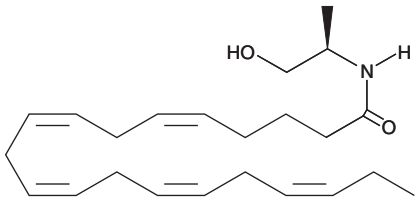
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

(R)-(+)-Eicosapentaenyl-1'-Hydroxy-2'-Propylamide

Item No. 9001225



Formal Name: N-((R)-1-hydroxypropan-2-yl)icosa-5Z,8Z,11Z,14Z,17Z-pentaenamide
MF: $C_{23}H_{37}NO_2$
FW: 359.6
Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

(R)-(+)-Eicosapentaenyl-1'-hydroxy-2'-propylamide 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of (R)-(+)-eicosapentaenyl-1'-hydroxy-2'-propylamide in these solvents is approximately 20, 10, and 11 mg/ml, respectively.

(R)-(+)-Eicosapentaenyl-1'-hydroxy-2'-propylamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of (R)-(+)-eicosapentaenyl-1'-hydroxy-2'-propylamide should be diluted with the aqueous buffer of choice. (R)-(+)-Eicosapentaenyl-1'-hydroxy-2'-propylamide has a solubility of approximately 0.3 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.

Description

N-Acyl ethanolamines (NAEs) have diverse biological actions that are strongly affected by the associated acyl group. Eicosapentaenoyl ethanolamide (EPEA) has potential signaling roles in aging, cancer, inflammation, and neurological development.[1-4] At least some of EPEA's effects are mediated through cannabinoid (CB) receptors, while some NAEs also act as vanilloid receptor agonists.[1,5] R-(+)-Eicosapentaenyl-1'-hydroxy-2'-propylamide is a homolog of EPEA, characterized by the addition of an (R)-α-methyl group at the methylene carbon adjacent to the amide nitrogen. A similar modification of arachidonoyl ethanolamide (Item No. 90050) to produce R-1 methanandamide (Item No. 90070) imparts higher affinity for the CB receptor as well as improved metabolic stability.[6] The physiological actions of this compound have not been evaluated.

References

1. Brown, I., Cascio, M.G., Wahle, K.W.J., *et al. Carcinogenesis* **31(9)**, 1584-1591 (2010).
2. Kim, H.-Y., Moon, H.-S., Cao, D., *et al. Biochem. J.* **435**, 327-336 (2011).
3. Balvers, M.G., Verhoeckx, K.C., Plastina, P., *et al. Biochim. Biophys. Acta* **1801(10)**, 1107-1114 (2010).
4. Lucanic, M., Held, J.M., Vantipalli, M.C., *et al. Nature* **473(7346)**, 226-9 (2011).
5. Calignano, A., LaRana, G., and Piomelli, D. . *Eur. J. Pharmacol.* **419(2-3)**, 191-198 (2001).
6. Abadji, V., Lin, S., Taha, G., *et al. J. Med. Chem.* **37**, 1889-1893 (1994).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM