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

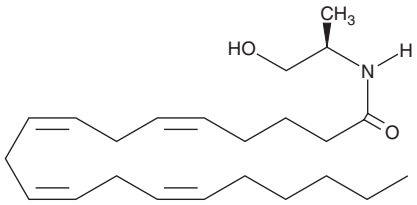
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

R-1 Methanandamide

Item No. 90070

CAS Registry No.: 157182-49-5
Formal Name: N-(2-hydroxy-1R-methylethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide
Synonyms: AM356, (R)-(+)-Arachidonyl-1'-Hydroxy-2'-Propylamide
MF: $C_{23}H_{39}NO_2$
FW: 361.6
Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

R-1 Methanandamide is supplied as a solution in ethanol. To change the solvent, simply evaporate the R-1 methanandamide 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 R-1 methanandamide in these solvents is approximately 10 and 30 mg/ml, respectively.

For maximum solubility in aqueous buffers, evaporate the methyl acetate and dissolve in ethanol. The ethanolic solution of R-1 methanandamide should be diluted with the aqueous buffer of choice. R-1 Methanandamide has a solubility of approximately 8.5 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method.

Description

R-1 methanandamide is a potent cannabinoid (CB) receptor 1 agonist in the methanandamide series. It is selective for CB_1 over CB_2 receptors with K_i values ranging from 17.9 to 28.3 and 815 to 868 nM, respectively.[1,2] R-1 methanandamide is more potent than arachidonoyl ethanolamide (AEA; Item No. 90050). In addition, R-1 methanandamide is more resistant than AEA to hydrolytic inactivation by fatty acid amide hydrolase (FAAH).[3]

References

1. Pertwee, R.G. Pharmacology of cannabinoid receptor ligands. *Curr. Med. Chem.* **6(8)**, 635-664 (1999).
2. Goutopoulos, A., Fan, P., Khanolkar, A.D., *et al.* Stereochemical selectivity of methanandamides for the CB1 and CB2 cannabinoid receptors and their metabolic stability. *Bioorg. Med. Chem.* **9(7)**, 1673-1684 (2001).
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(12)**, 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