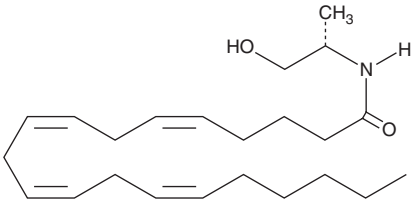
PRODUCT INFORMATION

S-1 Methanandamide

Item No. 90072

CAS Registry No.: 157182-50-8
Formal Name: N-(2-hydroxy-1S-methylethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide
Synonym: (S)-(-)-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: ≥2 years
Special Conditions: Oxygen and light sensitive



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

Laboratory Procedures

S-1 Methanandamide 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, dimethyl formamide, or acetonitrile purged with an inert gas or nitrogen can be used.

S-1 Methanandamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of S-1 methanandamide should be diluted with the aqueous buffer of choice. We do not recommend storing the aqueous solution for more than one day.

Description

S-1 Methanandamide is a CB_1 receptor ligand but is less potent than the C-1 (R) methyl isomer. It inhibits electrically evoked contractions in isolated mouse vasa deferentia with an IC_{50} of 230 nM. The binding affinity of S-1 methanandamide for CB_1 receptors is less than that of AEA, with a K_i of 175 nM for the displacement of radiolabeled CP 55,940.[1]

Reference

1. 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).

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