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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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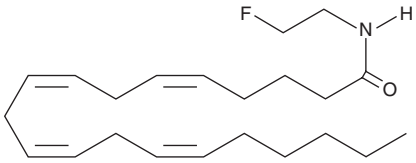
PRODUCT INFORMATION

Arachidonoyl-2'-Fluoroethylamide

Item No. 90054

CAS Registry No.: 166100-37-4
Formal Name: N-(2-fluoroethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide
Synonyms: 2-fluoro AEA, 2-fluoro Anandamide
MF: $C_{22}H_{36}FNO$
FW: 349.5
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

Arachidonoyl-2'-Fluoroethylamide (2-fluoro AEA) 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 and dimethyl formamide purged with an inert gas can be used. The solubility of 2-fluoro AEA in these solvents is at least 7 mg/ml.

2-fluoro AEA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 2-fluoro AEA should be diluted with the aqueous buffer of choice. 2-fluoro AEA has a solubility of 8 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

2-fluoro AEA is an analog of anandamide in which the alcohol of the ethanolamide group has been removed and replaced with a fluorine atom. This substitution adds considerably increased binding affinity for the CB_1 receptor (K_is = 26.7 and 908 nM for CB_1 and CB_2, respectively). It also contributes additional selectivity, in that binding to CB_2 is decreased relative to AEA.[1] However, the *in vivo* activity of 2-fluoro AEA is enhanced much less than the binding affinity, because the analog remains a good substrate for FAAH and is rapidly hydrolyzed by this enzyme.

Reference

1. Lin, S., Khanolkar, A.D., Fan, P., *et al.* Novel analogues of arachidonylethanolamide (anandamide): affinities for the CB_1 and CB_2 cannabinoid. *J. Med. Chem.* **41**, 5353-5361 (1998).

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