

Product Data Sheet

Product Name: Arachidonoyl Cyclopropylamide

Cat. No.: GC18615

Chemical Properties

Cas. No. 229021-64-1

Chemical Name N-cyclopropyl-5Z,8Z,11Z,14Z-eicosatetraenamide

SMILES CCCCC/C=C\C/C=C\C/C=C\C/C=C\CCCC(=O)NC1CC1

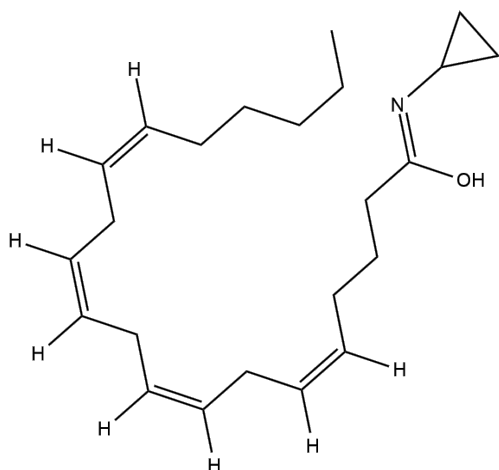
Formula $C_{23}H_{37}NO$ M.Wt 343.6

Solubility DMF: 15 mg/ml, DMSO: 10 mg/ml, Ethanol: 25 mg/ml, Ethanol:PBS (pH 7.2) (1:1): 1 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Arachidonoyl cyclopropylamide (ACPA) is a potent and selective cannabinoid (CB) receptor 1 agonist with K_i values of 2.2 and 715 nM for CB1 and CB2 receptors, respectively. In whole animal

Caution: Product has not been fully validated for medical applications. For research use only.

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experiments, ACPA induces hypothermia in mice with the same efficacy as arachidonoyl ethanolamide, in spite of its higher affinity for the CB1 receptor. These data have been interpreted to indicate that ACEA may be a substrate for fatty acid amide hydrolase (FAAH), and thus only transiently available in whole animal experiments.

References:

- [1]. Pertwee, R.G. Pharmacology of cannabinoid receptor ligands *Curr. Med. Chem.* 6(8), 635-664 (1999).
- [2]. Hillard, C.J., Manna, S., Greenberg, M.J., et al. Synthesis and characterization of potent and selective agonists of the neuronal cannabinoid receptor (CB1) *J. Pharmacol. Exp. Ther.* 289(3), 1427-1433 (1999).

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