

Certificate of Analysis

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Product Name: ACPA

Catalog No.: 1318

Batch No.: 4

CAS Number: 229021-64-1

IUPAC Name: *N*-(Cyclopropyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₇NO

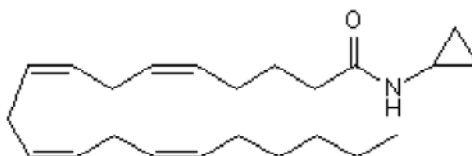
Batch Molecular Weight: 343.55

Physical Appearance: Colourless oil

Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.16 (Diethyl ether:Petroleum ether [1:1])

HPLC: Shows >99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and selective CB₁ agonist (K_i = 2.2 nM). Displays 325-fold selectivity over CB₂ receptors. Active in vivo. Water Soluble Emulsion also available.

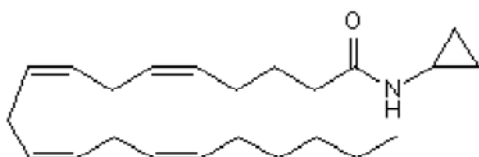
Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₃₇NO

Batch Molecular Weight: 343.55

Physical Appearance: Colourless oil

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)

This product is supplied dissolved in anhydrous ethanol at a concentration of 5mg/ml

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Patel *et al* (2001) Cannabinoid CB₁ receptor agonists produce cerebellar dysfunction in mice. 2001 Symposium on the Cannabinoids, International .

Hillard *et al* (1999) Synthesis and characterization of potent and selective agonists of the neuronal cannabinoid receptor (CB1). *J.Pharmacol.Exp.Ther.* **289** 1427. PMID: 10336536.

Pertwee (1999) Pharmacology of cannabinoid receptor ligands. *Curr.Med.Chem.* **6** 635. PMID: 10469884.

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