

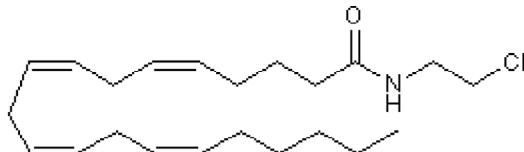
# Certificate of Analysis

[www.tocris.com](http://www.tocris.com)**Product Name:** ACEA**Catalog No.:** 1319**Batch No.:** 22

CAS Number: 220556-69-4

IUPAC Name: *N*-(2-Chloroethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>36</sub>CINO**Batch Molecular Weight:** 365.99**Physical Appearance:** Brown liquid**Solubility:** Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)**Storage:** Store at -20°C**Batch Molecular Structure:**

## 2. ANALYTICAL DATA

**HPLC:** Shows 98.1 % purity**<sup>1</sup>H 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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# Product Information

[www.tocris.com](http://www.tocris.com)**Product Name:** ACEA**Catalog No.:** 1319**Batch No.:** 22

CAS Number: 220556-69-4

IUPAC Name: *N*-(2-Chloroethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide**Description:**

ACEA is a potent and highly selective CB<sub>1</sub> receptor agonist (K<sub>i</sub> = 1.4 nM). Displays >1400-fold selectivity over CB<sub>2</sub> receptors. Active in vivo.

**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.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>22</sub>H<sub>36</sub>ClNO

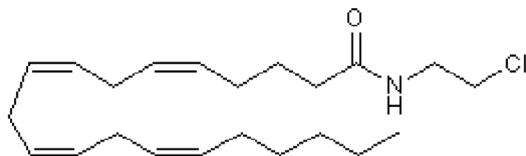
Batch Molecular Weight: 365.99

Physical Appearance: Brown liquid

**Minimum Purity:** ≥97%**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

**Batch Molecular Structure:****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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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. *J.Pharmacol.Exp.Ther.* **297** 629. PMID: 11303052.

**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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