Product Name: ACEA
CAS Number: 220556-69-4
IUPAC Name: \(N\)-(2-Chloroethyl)-5\(Z\),8\(Z\),11\(Z\),14\(Z\)-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{22}H_{36}ClNO\)
Batch Molecular Weight: 365.99
Physical Appearance: Colourless oil
Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \(R_f = 0.2\) (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 98.6% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Product Information

**Product Name:** ACEA  
**Catalog No.:** 1319  
**Batch No.:** 14

**CAS Number:** 220556-69-4  
**IUPAC Name:** N-(2-Chloroethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

**Description:**
Potent and highly selective CB₁ receptor agonist ($K_i = 1.4$ nM). Displays >1400-fold selectivity over CB₂ receptors. Active in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₂H₃₆ClNO
- **Batch Molecular Weight:** 365.99
- **Physical Appearance:** Colourless oil

**Batch Molecular Structure:**

![Molecular Structure](image)

**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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN CANADA ONLY**
This product is a Schedule II CDSA controlled substance and customers in Canada require an import permit to purchase this material.

**References:**