1. PHYSICAL AND CHEMICAL PROPERTIES

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

2. ANALYTICAL DATA

HPLC: Shows 97.1% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
**Product Information**

**Product Name:** ACEA

**CAS Number:** 220556-69-4

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

**Description:**
ACEA is a potent and highly selective CB1 receptor agonist (Kᵢ = 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:** Yellow liquid
- **Minimum Purity:** ≥97%

**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.

**References:**

