Product Name: (R)-(+-)Methanandamide
Catalog No.: 1121
Batch No.: 7
CAS Number: 157182-49-5
IUPAC Name: (R)-N-(2-Hydroxy-1-methylethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{23}H_{39}NO_{2}
Batch Molecular Weight: 361.57
Physical Appearance: Golden oil
Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
Storage: Desiccate at -20°C

2. ANALYTICAL DATA

TLC: R_f = 0.33 (Chloroform:Methanol [95:5])
HPLC: Shows >98.5% purity
^1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [\alpha]_D = 10 (Concentration = 1, Solvent = Chloroform)
### Description:
Stable anandamide analog that is a selective agonist for the CB₁ receptor (Kᵢ values are 20 and 815 nM for CB₁ and CB₂ receptors respectively). Also displays agonist activity at vanilloid receptors. Water Soluble Emulsion also available.

### Physical and Chemical Properties:
- **Batch Molecular Formula:** C₂₃H₃₈NO₂
- **Batch Molecular Weight:** 361.57
- **Physical Appearance:** Golden oil
- **Minimum Purity:** ≥98%

### Storage:
Desiccate 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: