Product Name: Anandamide
Catalog No.: 1339  Batch No.: 17
CAS Number: 94421-68-8
IUPAC Name: N-(2-Hydroxyethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES
   Batch Molecular Formula: C_{22}H_{37}NO_2
   Batch Molecular Weight: 347.54
   Physical Appearance: Clear 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 = 0.41 (Ethyl acetate:Ethanol [1:1])
   HPLC: Shows 100% purity
   ^1H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
**Product Name:** Anandamide  
**Catalog No.:** 1339  
**Batch No.:** 17

**Description:**  
Endogenous cannabinoid and TRPV1 receptor agonist ($K_i$ values are 89 and 371 nM at CB$_1$ and CB$_2$ receptors respectively; EC$_{50}$ values are 18, 31 and 27 nM at GPR55, CB$_1$ and CB$_2$ respectively; $pK_i$ = 5.68 for rTRPV1). Also blocks TNF-α-induced NF-κB activation via direct inhibition of IKK. Available in water soluble emulsion (Cat. No. 1017). Deuterated analog also available.

**Physical and Chemical Properties:**  
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Physical Appearance: Clear 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:**  