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

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.41 \) (Ethyl acetate:Ethanol [1:1])
- **HPLC:** Shows 100% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
Product Name: Anandamide
Catalog No.: 1339  
Batch No.: 17

CAS Number: 94421-68-8
IUPAC Name: N-(2-Hydroxyethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

Description:
Endogenous cannabinoid and TRPV1 receptor agonist (Kᵢ values are 89 and 371 nM at CB₁ and CB₂ receptors respectively; EC₅₀ values are 18, 31 and 27 nM at GPR55, CB₁ and CB₂ respectively; pKᵢ = 5.68 for rTRPV1). Also blocks TNF-α-induced NF-κB activation via direct inhibition of IKK. Also available in water soluble emulsion (Cat. No. 1017).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₂H₃₅NO₂
Batch Molecular Weight: 347.54
Physical Appearance: Clear oil

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:

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com  info@bio-techne.com  techsupport@bio-techne.com
North America  Tel: (800) 343 7475
China  info.cn@bio-techne.com  Tel: +86 (21) 52380373
Europe Middle East Africa  Tel:+44 (0)1235 529449
Rest of World  www.tocris.com/distributors  Tel:+1 612 379 2956