

Product Name: DEA

Catalog No.: 1485

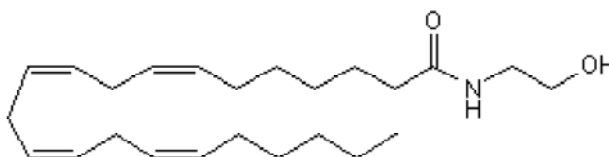
Batch No.: 1

CAS Number: 150314-35-5

IUPAC Name: *N*-(2-Hydroxyethyl)-7Z,10Z,13Z,16Z-docosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₄₁NO₂
Batch Molecular Weight: 375.59
Physical Appearance: Colourless liquid
Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Chloroform:Methanol [95:5])
¹H NMR: Consistent with structure

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

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Description:

Potent endocannabinoid and anandamide (Cat. No. 1339) analog that activates CB₁ receptors in microglia and binds to rat synaptosomal membranes (K_i = 34.4 nM). Cannabimimetic in vivo.

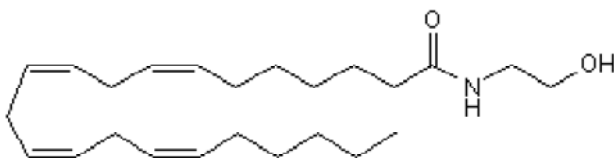
Physical and Chemical Properties:

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Batch Molecular Weight: 375.59

Physical Appearance: Colourless liquid

Batch Molecular Structure:



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:

Walter et al (2001) Microglial cells produce endocannabinoids and express functional cannabinoid receptors: evidence that docosatetraenylethanolamide (DEA) is an additional endocannabinoid. *Soc.Neurosci.Abstr.* 634.16.

Barg et al (1995) Cannabinomimetic behavioral effects of and adenylate cyclase inhibition by two new endogenous anandamides. *Eur.J.Pharmacol.* **287** 145. PMID: 8749028.

Hanus et al (1993) Two new unsaturated fatty acid ethanolamides in brain that bind to the cannabinoid receptor. *J.Med.Chem.* **36** 3032. PMID: 8411021.

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