

Certificate of Analysis

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Product Name: Virodhamine

Catalog No.: 1569

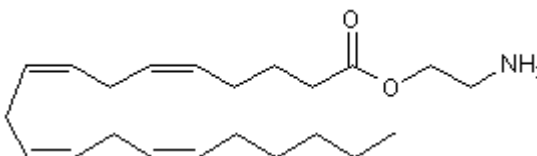
Batch No.: 1

CAS Number: 287937-12-6

IUPAC Name: O-(2-Aminoethyl)-5Z,8Z,11Z,14Z-eicosatetraenoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₂ H ₃₇ NO ₂
Batch Molecular Weight:	347.54
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 = 0.34 (Chloroform:Methanol [9:1])
¹H NMR:	Consistent with structure
¹³C NMR:	Consistent with structure

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

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Description:

Endogenous cannabinoid receptor mixed agonist/antagonist found in higher concentrations peripherally than anandamide. Full agonist at GPR55 and CB₂ and partial agonist/antagonist at CB₁ (EC₅₀ values are 12, 381 and 2920 nM at GPR55, CB₂ and CB₁ receptors respectively). Induces hypothermia in vivo. Also available as part of the Cannabinoid Receptor Agonist Tocriset™ and Endocannabinoid Tocriset™.

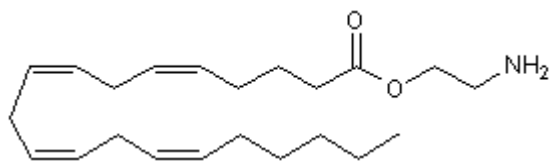
Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₃₇NO₂

Batch Molecular Weight: 347.54

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:

Porter et al (2002) Characterization of a novel endocannabinoid, virodhamine, with antagonist activity at the CB1 receptor. *J.Pharmacol.Exp.Ther.* **301** 1020. PMID: 12023533.

Sauer et al (2002) Further characterization of the novel endocannabinoid virodhamine. 2002 Symposium on the Cannabinoids, International .

Ryberg et al (2007) The orphan receptor GPR55 is a novel cannabinoid receptor. *Br.J.Pharmacol.* **152** 1092. PMID: 17876302.

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