

Certificate of Analysis

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Product Name: VDM 11

Catalog No.: 1392

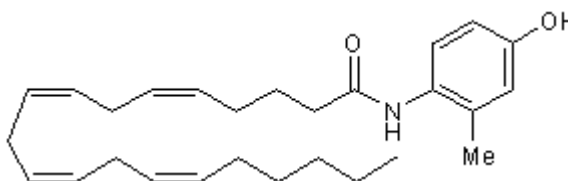
Batch No.: 3

CAS Number: 313998-81-1

IUPAC Name: (5Z,8Z,11Z,14Z)-N-(4-Hydroxy-2-methylphenyl)-5,8,11,14-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₇ H ₃₉ NO ₂
Batch Molecular Weight:	409.61
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 = 0.6 (Dichloromethane:Methanol [95:5])
HPLC:	Shows >98.5% purity
¹H NMR:	Consistent with structure

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

Product Information

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Description:

A potent and selective inhibitor of the anandamide membrane transporter (AMT) with IC₅₀ values of 4-11 µM. Displays negligible agonist activity at the hVR1 receptor and very weak action at CB₁ and CB₂ receptors. K_i values are > 5-10 µM at CB₁ and CB₂. Active in vivo. Also available in water-soluble emulsion (Cat. No. 1686).

Physical and Chemical Properties:

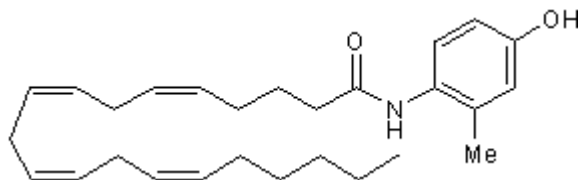
Batch Molecular Formula: C₂₇H₃₉NO₂

Batch Molecular Weight: 409.61

Physical Appearance: Colourless liquid

Minimum Purity: >98%

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:

De Petrocellis et al (2000) Overlap between the ligand recognition properties of the anandamide transporter and the VR1 vanilloid receptor: inhibitors of anandamide uptake with negligible capsaicin-like activity. *FEBS Lett.* **483** 52. PMID: 11033355.

De Petrocellis et al (2001) The activity of anandamide at vanilloid VR1 receptors requires facilitated transport across the cell membrane and is limited by intracellular metabolism. *J.Biol.Chem.* **276** 12856. PMID: 11278420.

Bisogno et al (2001) The uptake by cells of 2-arachidonoylglycerol, an endogenous agonist of cannabinoid receptors. *Eur.J.Biochem.* **268** 1982. PMID: 11277920.

Gubellini et al (2002) Experimental Parkinsonism alters endocannabinoid degradation: implications for striatal glutamatergic transmission. *J.Neurosci.* **22** 6900. PMID: 12177188.

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