

Certificate of Analysis

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Product Name: Arvanil

Catalog No.: 1354

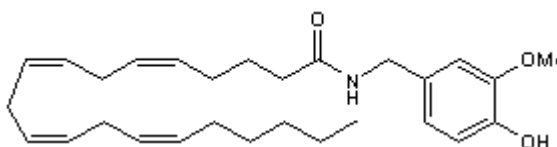
Batch No.: 2

CAS Number: 128007-31-8

IUPAC Name: *N*-[(4-Hydroxy-3-methoxyphenyl)methyl]-5*Z*,8*Z*,11*Z*,14*Z*-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₈ H ₄₁ NO ₃
Batch Molecular Weight:	439.64
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 = 0.33 (Ethyl acetate:Petroleum ether [1:1])
HPLC:	Shows >99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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Description:

Cannabinoid CB₁ and vanilloid TRPV1 (VR1) agonist (K_i values are 0.5 and 0.3 μM respectively). Also inhibits the anandamide transporter (IC₅₀ = 3.6 μM). Analgesic, vasodilatory and anti-inflammatory in vivo.

Physical and Chemical Properties:

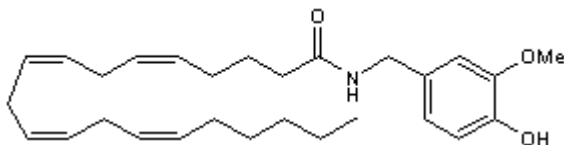
Batch Molecular Formula: C₂₈H₄₁NO₃

Batch Molecular Weight: 439.64

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)

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:

Melck et al (1999) Unsaturated long-chain N-acyl-vanillyl-amides (N-AVAMs): vanilloid receptor ligands that inhibit anandamide-facilitated transport and bind to CB1 receptors. *Biochem.Biophys.Res.Commun.* **262** 275. PMID: 10448105.

Szallasi and Di Marzo (2000) New perspectives on enigmatic vanilloid receptors. *Trends Neurosci.* **23** 491. PMID: 11006466.

Di Marzo et al (2000) Neurobehavioral activity in mice of N-vanillyl-arachidonyl-amide. *Eur.J.Pharmacol.* **406** 363. PMID: 11040343.

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