

Certificate of Analysis

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Product Name: O-2093

Catalog No.: 1446

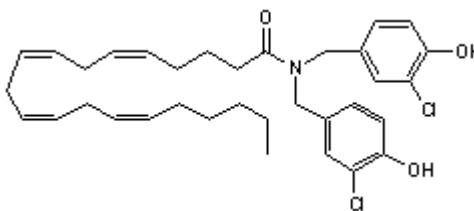
Batch No.: 1

CAS Number: 439080-01-0

IUPAC Name: *N*-(bis-3-chloro-4-hydroxybenzyl)-5*Z*,8*Z*,11*Z*,14*Z*-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₄ H ₄₃ Cl ₂ NO ₃
Batch Molecular Weight:	584.62
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 = 0.3 (Ethyl acetate:Petroleum ether [2:3])
Melting Point:	Between 73 - 75°C
HPLC:	Shows >99.2% purity
¹H NMR:	Consistent with structure
¹³C NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

Carbon Hydrogen Nitrogen

Theoretical	69.85	7.41	2.4
Found	69.96	7.5	2.42

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

Product Information

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Description:

Inhibitor of anandamide uptake (IC_{50} = 17.3 μ M) with little or no activity at CB₁, CB₂, TRPV1 and FAAH. Intravenous administration inhibits limb spasticity in mice with chronic relapsing experimental allergic encephalomyelitis (CREAE).

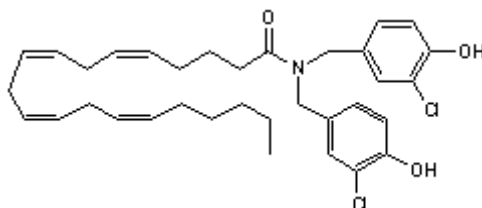
Physical and Chemical Properties:

Batch Molecular Formula: C₃₄H₄₃Cl₂NO₃

Batch Molecular Weight: 584.62

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:

Griffin *et al* (2001) Activity of a novel anandamide analog suggests a non-CB₁, non-VR₁ site of action. 2001 Symposium on the Cannabinoids, International.

Di Marzo *et al* (2002) A structure/activity relationship study on arvanil, an endocannabinoid and vanilloid hybrid. *J.Pharmacol.Exp.Ther.* **300** 984. PMID: 11861807.

Ligresti *et al* (2006) New potent and selective inhibitors of anandamide reuptake with antispastic activity in a mouse model of multiple sclerosis. *Br.J.Pharmacol.* **147** 83. PMID: 16284631.

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