

Certificate of Analysis

Product Name: UCM 707

Catalog No.: 1966

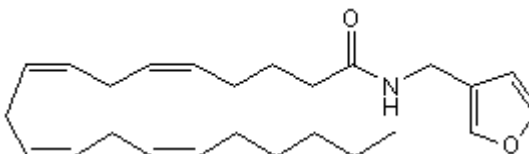
Batch No.: 3

CAS Number: 390824-20-1

IUPAC Name: (5Z,8Z,11Z,14Z)-N-(3-Furanylmethyl)-5,8,11,14-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₅ H ₃₇ NO ₂
Batch Molecular Weight:	383.57
Physical Appearance:	Colourless oil
Solubility:	ethanol to 100 mM DMSO to 100 mM
Storage:	Desiccate at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.45 (Ethyl acetate:Petroleum ether [1:3])
HPLC:	Shows >98.86% 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:

Potent endocannabinoid transport inhibitor. IC₅₀ values are 0.8 and 30 μM for inhibition of the anandamide transporter and FAAH respectively. K_i values are 4700, 67 and > 5000 nM for CB₁, CB₂ and VR1 receptors respectively. Potentiates hypokinetic and antinociceptive effects of anandamide in vivo.

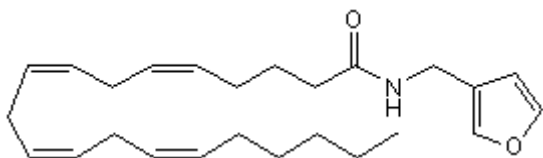
Physical and Chemical Properties:

Batch Molecular Formula: C₂₅H₃₇NO₂

Batch Molecular Weight: 383.57

Physical Appearance: Colourless oil

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:

ethanol to 100 mM

DMSO to 100 mM

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:

Lopez-Rodriguez et al (2003) Design, synthesis and biological evaluation of new endocannabinoid transporter inhibitors. *Eur.J.Med.Chem.* **38** 403. PMID: 12750028.

Lopez-Rodriguez et al (2003) Design, synthesis, and biological evaluation of new inhibitors of the endocannabinoid uptake: comparison with effects on fatty acid amidohydrolase. *J.Med.Chem.* **46** 1512. PMID: 12672252.

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