

Product Name: Olvanil

Catalog No.: 0934

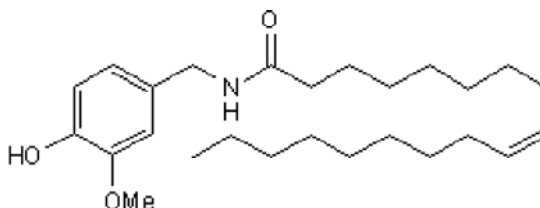
Batch No.: 4

CAS Number: 58493-49-5

IUPAC Name: *N*-Vanillyloleoylamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₄₃NO₃
Batch Molecular Weight: 417.63
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (40% Ethyl acetate:Petroleum ether)
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.78	10.38	3.35
Found	74.69	10.56	3.49

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

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CAS Number: 58493-49-5

IUPAC Name: *N*-Vanillyloleamide

Description:

Potent vanilloid receptor agonist (pEC₅₀ values are 8.1 and 7.7 at rat and human VR1 receptors respectively). Also blocks anandamide uptake (IC₅₀ = 9 μM) and may bind to CB₁ cannabinoid receptors. Antinociceptive following systemic administration.

Physical and Chemical Properties:

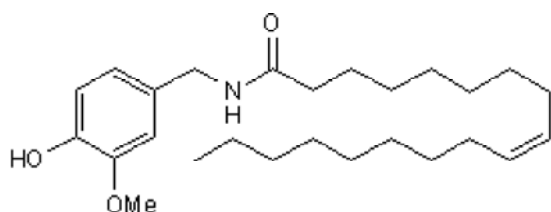
Batch Molecular Formula: C₂₆H₄₃NO₃

Batch Molecular Weight: 417.63

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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:

Ralevic et al (2001) Cannabinoid activation of recombinant and endogenous vanilloid receptors. *Eur.J.Pharmacol.* **424** 211. PMID: 11672565.

Di Marzo et al (1998) Interactions between synthetic vanilloids and the endogenous cannabinoid system. *FEBS Lett.* **436** 449. PMID: 9801167.

Janusz et al (1993) Vanilloids. 1. Analogs of capsaicin with antinociceptive and antiinflammatory activity. *J.Med.Chem.* **36** 2595. PMID: 8410971.

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