

**Product Name:** OMDM-2

**Catalog No.:** 1797

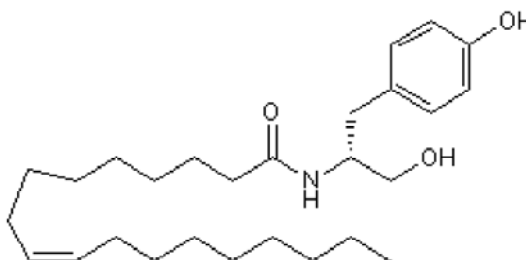
**Batch No.:** 1

CAS Number: 616884-63-0

IUPAC Name: (9Z)-N-[1-((R)-4-Hydroxybenzyl)-2-hydroxyethyl]-9-octadecenamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>45</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 431.66  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 10 mM  
DMSO to 10 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.24 (Dichloromethane:Ethyl acetate [3:2])  
**Melting Point:** Between 91 - 93°C  
**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +19 (Concentration = 1, Solvent = Chloroform)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	75.13	10.51	3.24
Found	75.23	10.86	3.29

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**Description:**

Metabolically stable inhibitor of anandamide cellular uptake ( $K_i = 3 \mu\text{M}$ ). Displays relatively low affinity for  $\text{CB}_1$  and  $\text{CB}_2$  receptors ( $K_i$  values are 5.1 and  $> 10 \mu\text{M}$ ) and for vanilloid VR1 receptors ( $\text{EC}_{50} = 10 \mu\text{M}$ ). Has minimal activity against FAAH ( $K_i > 50 \mu\text{M}$ ). Active in vivo.

**Physical and Chemical Properties:**

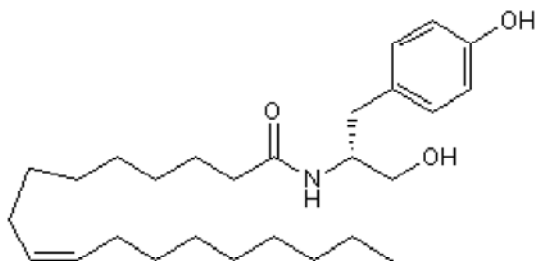
Batch Molecular Formula:  $\text{C}_{27}\text{H}_{45}\text{NO}_3$

Batch Molecular Weight: 431.66

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

ethanol to 10 mM

DMSO to 10 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:**

**de Lago et al** (2004) In vivo pharmacological actions of two novel inhibitors of anandamide cellular uptake. *Eur.J.Pharmacol.* **484** 249. PMID: 14744610.

**Ortar et al** (2003) Novel selective and metabolically stable inhibitors of anandamide cellular uptake. *Biochem.Pharmacol.* **35** 1473. PMID: 12732359.

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