

## Certificate of Analysis

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**Product Name:** OLDA

**Catalog No.:** 1641

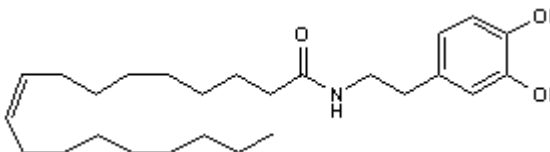
**Batch No.:** 3

CAS Number: 105955-11-1

IUPAC Name: (9Z)-N-[2-(3,4-Dihydroxyphenyl)ethyl]-9-octadecenamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>26</sub>H<sub>43</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 417.63  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 50 mM  
 ethanol to 50 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.38 (Diethyl ether:Petroleum ether [4:1])  
**Melting Point:** 56°C  
**HPLC:** Shows >99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	74.78	10.38	3.35
Found	74.51	10.6	3.28

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

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IUPAC Name: (9Z)-N-[2-(3,4-Dihydroxyphenyl)ethyl]-9-octadecenamide

**Description:**

Potent endogenous vanilloid TRPV1 (VR1) receptor agonist (EC<sub>50</sub> = 36 nM at hVR1) with low affinity for rCB<sub>1</sub> receptors (K<sub>i</sub> = 1.6 μM). Potently induces VR1-mediated thermal hyperalgesia in rats in vivo.

**Physical and Chemical Properties:**

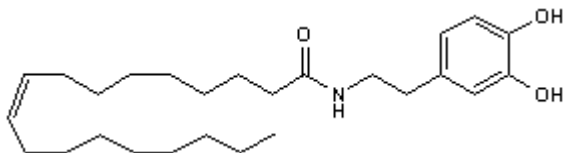
Batch Molecular Formula: C<sub>26</sub>H<sub>43</sub>NO<sub>3</sub>

Batch Molecular Weight: 417.63

Physical Appearance: White solid

**Minimum Purity:** >99%

**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:**

DMSO to 50 mM

ethanol to 50 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:**

**Chu et al** (2003) *N*-Oleoyldopamine, a novel endogenous capsaicin-like lipid that produces hyperalgesia. *J.Biol.Chem.* **278** 13633. PMID: 12569099.

**Butelman et al** (2004) Anitallodynic effects of loperamide and fentanyl against topical capsaicin-induced allodynia in unanesthetized primates. *J.Pharmacol.Exp.Ther.* **311** 155. PMID: 15152028.

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