

**Product Name:** NADA

**Catalog No.:** 1568

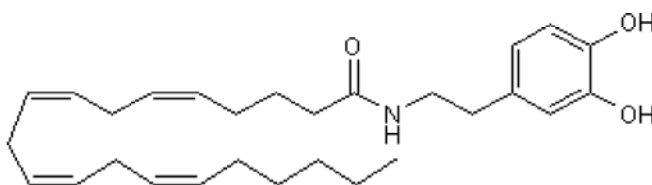
**Batch No.:** 4

CAS Number: 199875-69-9

IUPAC Name: *N*-[2-(3,4-Dihydroxyphenyl)ethyl]-5*Z*,8*Z*,11*Z*,14*Z*-eicosatetraenamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>28</sub>H<sub>41</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 439.64  
**Physical Appearance:** Yellow 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<sub>f</sub> = 0.5 (Ethyl acetate:Petroleum ether [7:3])  
**<sup>1</sup>H NMR:** Consistent with structure

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

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**Description:**

Potent endogenous cannabinoid and vanilloid receptor agonist, with no action at dopamine receptors. Selective for CB<sub>1</sub> over CB<sub>2</sub> receptors (K<sub>i</sub> values are 0.25 and 12 μM respectively), and potent agonist at TRPV1 (VR1) receptors (EC<sub>50</sub> ~ 50 nM). Metabolically stable and competitively inhibits FAAH and anandamide transport. Has cannabinoid and vanilloid actions *in vivo*.

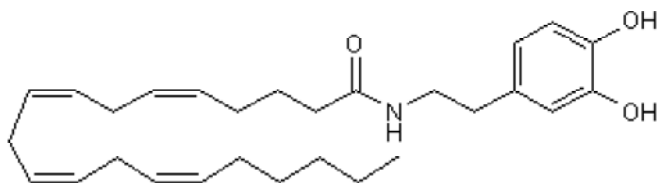
**Physical and Chemical Properties:**

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Batch Molecular Weight: 439.64

Physical Appearance: Yellow 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:**

**Huang *et al* (2002)** An endogenous capsaicin-like substance with high potency at recombinant and native vanilloid VR1 receptors. *Proc.Natl.Acad.Sci.U.S.A.* **99** 8400. PMID: 12060783.

**Bisogno *et al* (2000)** N-acyl-DAs: novel synthetic CB<sub>1</sub> cannabinoid-receptor ligands and inhibitors of anandamide inactivation with cannabimimetic activity *in vitro* and *in vivo*. *Biochem.J.* **351** 817. PMID: 11042139.

**De Petrocellis *et al* (2000)** Overlap between the ligand recognition properties of the anandamide transporter and the VR1 vanilloid receptor: inhibitors of anandamide uptake with negligible capsaicin-like activity. *FEBS Lett.* **483** 52. PMID: 11033355.

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