

## Certificate of Analysis

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**Product Name:** Virodhamine trifluoroacetate

**Catalog No.:** 5395

**Batch No.:** 1

CAS Number: 1415264-56-0

IUPAC Name: O-(2-Aminoethyl)-5Z,8Z,11Z,14Z-eicosatetraenoate trifluoroacetate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

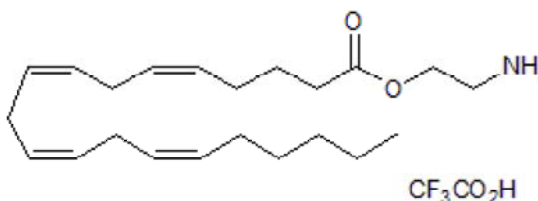
**Batch Molecular Formula:** C<sub>22</sub>H<sub>37</sub>NO<sub>2</sub>.CF<sub>3</sub>CO<sub>2</sub>H

**Batch Molecular Weight:** 461.56

**Physical Appearance:** Golden oil

**Storage:** Store at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.28 (Chloroform:Methanol [9:1])

**HPLC:** Shows 98.4% purity

**<sup>1</sup>H 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:**

TFA salt of virodhamine, an endogenous cannabinoid receptor mixed agonist/antagonist that is found in higher concentrations peripherally than anandamide. Virodhamine is a full agonist at GPR55 and CB<sub>2</sub> and partial agonist/antagonist at CB<sub>1</sub> (EC<sub>50</sub> values are 12, 381 and 2920 nM at GPR55, CB<sub>2</sub> and CB<sub>1</sub> receptors respectively).

**Physical and Chemical Properties:**

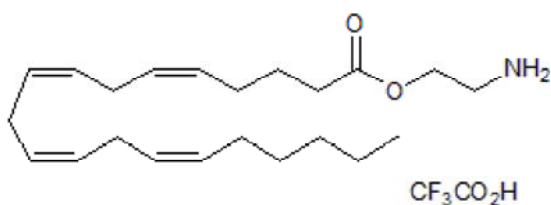
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Batch Molecular Weight: 461.56

Physical Appearance: Golden oil

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C. This product is packaged under an inert atmosphere.

**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:**

This product is supplied dissolved in anhydrous ethanol at a concentration of 10mg/ml. The solvent has been degassed with inert atmosphere and the vial has been packed under inert atmosphere.

**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:**

**Porter et al** (2002) Characterization of a novel endocannabinoid, virodhamine, with antagonist activity at the CB<sub>1</sub> receptor. *J.Pharmacol.Exp.Ther.* **301** 1020. PMID: 12023533.

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