

# Certificate of Analysis

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**Product Name:** O-2545 hydrochloride

**Catalog No.:** 2680

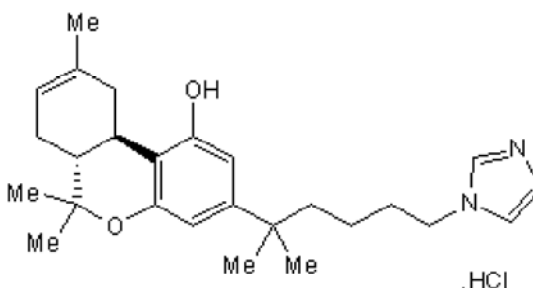
**Batch No.:** 1

**CAS Number:** 874745-43-4

**IUPAC Name:** (6a*R*,10a*R*)-6a,7,10,10a-Tetrahydro-3-[5-(1*H*-imidazol-1-yl)-1,1-dimethylpentyl]-6,6,9-trimethyl-6*H*-dibenzo[*b,d*]pyran-1-ol hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>26</sub> H <sub>36</sub> N <sub>2</sub> O <sub>2</sub> .HCl.¼H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	449.54
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	water to 20 mM with gentle warming ethanol to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.22 (Ethyl acetate)
<b>HPLC:</b>	Shows 100% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure

<b>Microanalysis:</b>	Carbon Hydrogen Nitrogen		
Theoretical	69.47	8.41	6.23
Found	69.52	8.37	5.94

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

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**Description:**

High affinity, water-soluble CB<sub>1</sub>/CB<sub>2</sub> receptor agonist (K<sub>i</sub> values are 1.5 and 0.32 nM for CB<sub>1</sub> and CB<sub>2</sub> receptors respectively). Active in vivo following i.v. and i.c.v. administration.

**Physical and Chemical Properties:**

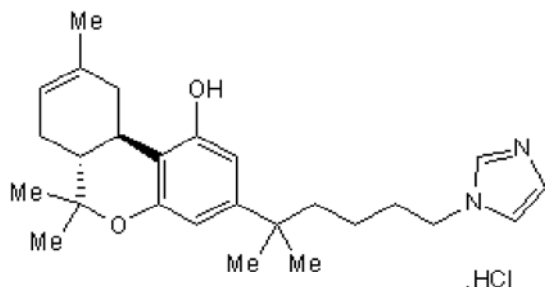
Batch Molecular Formula: C<sub>26</sub>H<sub>36</sub>N<sub>2</sub>O<sub>2</sub>.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 449.54

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 20 mM with gentle warming  
ethanol to 100 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.

**Licensing Information:**

Sold under license from VCU-IPF

**References:**

**Martin *et al*** (2006) Pharmacological characterization of novel water-soluble cannabinoids. *J.Pharmacol.Exp.Ther.* **318** 1230. PMID: 16757541.

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