

**Product Name:** WIN 55,212-2 mesylate

**Catalog No.:** 1038

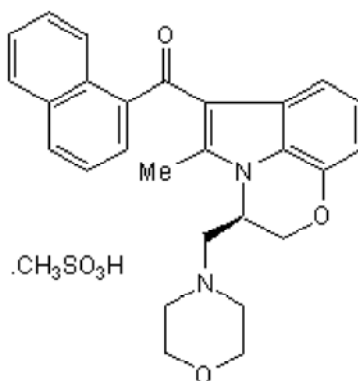
**Batch No.:** 34

CAS Number: 131543-23-2

IUPAC Name: (R)-(+)-[2,3-Dihydro-5-methyl-3-(4-morpholinylmethyl)pyrrolo[1,2,3-*de*]-1,4-benzoxazin-6-yl]-1-naphthalenylmethanone mesylate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>27</sub> H <sub>26</sub> N <sub>2</sub> O <sub>3</sub> .CH <sub>3</sub> SO <sub>3</sub> H
<b>Batch Molecular Weight:</b>	522.61
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	ethanol to 30 mM with gentle warming DMSO to 100 mM with gentle warming
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.21 (Ethyl acetate:Petroleum ether [1:1])
<b>HPLC:</b>	Shows 99.5% purity
<b>Chiral HPLC:</b>	Shows 100% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Optical Rotation:</b>	[α] <sub>D</sub> = +43.7 (Concentration = 1, Solvent = DMF)

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

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**Description:**

WIN 55,212-2 mesylate is a selective high affinity CB<sub>2</sub> agonist (K<sub>i</sub> values are 3.3 and 62.3 nM at the human cloned CB<sub>2</sub> and CB<sub>1</sub> receptors respectively).

**Physical and Chemical Properties:**

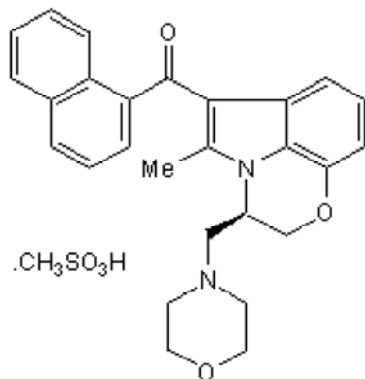
Batch Molecular Formula: C<sub>27</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>.CH<sub>3</sub>SO<sub>3</sub>H

Batch Molecular Weight: 522.61

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

ethanol to 30 mM with gentle warming  
DMSO to 100 mM with gentle warming

**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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**

**Griffin *et al*** (1998) Evaluation of cannabinoid receptor agonists and antagonists using the guanosine-5'-O-(3-[35S]thio)-triphosphate binding assay in rat cerebellar membranes. *J.Pharmacol.Exp.Ther.* **285** 553. PMID: 9580597.

**Martellotta *et al*** (1998) Self-administration of the cannabinoid receptor agonist WIN 55,212-2 in drug naive mice. *Neuroscience* **85** 327. PMID: 9622233.

**Felder *et al*** (1995) Comparison of the pharmacology and signal transduction of the human cannabinoid CB<sub>1</sub> and CB<sub>2</sub> receptors. *Mol.Pharmacol.* **48** 443. PMID: 7565624.

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