Certificate of Analysis

Product Name: **WIN 55,212-2 mesylate** **Catalog No.: 1038** **Batch No.: 33**

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

Batch Molecular Formula: $C_{27}H_{26}N_2O_3.CH_3SO_3H.½H_2O$

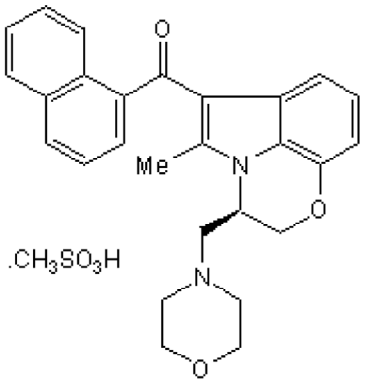
Batch Molecular Weight: 531.62

Physical Appearance: Off-white solid

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

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.3% purity

Chiral HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = +38.4 (Concentration = 1, Solvent = DMF)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.26	5.88	5.27
Found	63.3	5.91	5.2

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Description:

WIN 55,212-2 mesylate is a selective high affinity CB_2 agonist (K_i values are 3.3 and 62.3 nM at the human cloned CB_2 and CB_1 receptors respectively).

Physical and Chemical Properties:

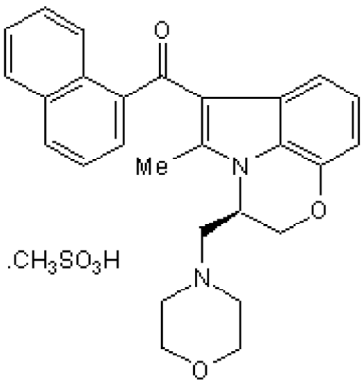
Batch Molecular Formula: $C_{27}H_{26}N_2O_3.CH_3SO_3H.½H_2O$

Batch Molecular Weight: 531.62

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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_1 and CB_2 receptors. Mol.Pharmacol. ***48*** 443. PMID: 7565624.

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