

Product Name: WIN 55,212-2 mesylate

Catalog No.: 1038

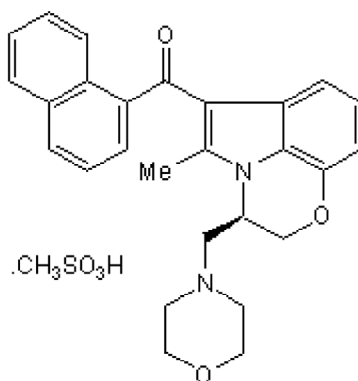
Batch No.: 34

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

Batch Molecular Formula:	C ₂₇ H ₂₆ N ₂ O ₃ .CH ₃ SO ₃ H
Batch Molecular Weight:	522.61
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 = 0.21 (Ethyl acetate:Petroleum ether [1:1])
HPLC:	Shows 99.5% purity
Chiral HPLC:	Shows 100% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = +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 CB₂ agonist (K_i values are 3.3 and 62.3 nM at the human cloned CB₂ and CB₁ receptors respectively).

Physical and Chemical Properties:

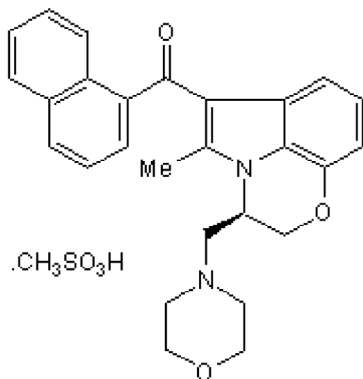
Batch Molecular Formula: C₂₇H₂₆N₂O₃.CH₃SO₃H

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. *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 CB₁ and CB₂ receptors. *Mol.Pharmacol.* **48** 443. PMID: 7565624.

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