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:**

![Molecular Structure](image)

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.21 \) (Ethyl acetate:Petroleum ether [1:1])
- **HPLC:** Shows 99.5% purity
- **Chiral HPLC:** Shows 100% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** \([\alpha]_D = +43.7\) (Concentration = 1, Solvent = DMF)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Nanomolar affinity cannabinoid receptor agonist (K_v values are 62.3 and 3.3 nM at the human cloned CB_1 and CB_2 receptors respectively). S-enantiomer also available.

Physical and Chemical Properties:
Batch Molecular Formula: C_{27}H_{36}N_{3}O_{4}\cdot\text{CH}_3\text{SO}_3\text{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

Tocrisolve (Cat. No. 1684) is an effective solvent for WIN 55,212-2 mesylate and has been validated in-house at 1mg/ml and 10mg/ml. The solution should be stirred at room temperature for one hour; heating at 50°C is recommended with concentrations of 10mg/ml. The emulsion can then be diluted to any extent with aqueous medium, including water, saline and HEPES buffer.

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 relevent licence or be exempt from restrictions in order to purchase and possess this material.

INFORMATION FOR CUSTOMERS IN CANADA ONLY
This product is a Schedule II CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References: