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: C27H26N2O3.CH3SO3H
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

2. ANALYTICAL DATA

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

**Description:**
Selective high affinity CB₂ agonist (Kᵢ values are 3.3 and 62.3 nM at the human cloned CB₂ and CB₁ receptors respectively). S-enantiomer also available.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₁H₂₆N₂O₅.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**

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

**References:**