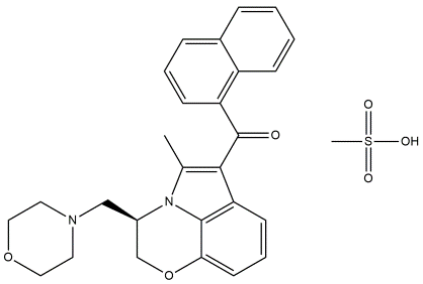
WIN 55,212-2 Mesylate

04/20

ALTERNATE NAMES: (R)-(+)-WIN 55,212-2 mesylate; (R)-(5-Methyl-3-(morpholinomethyl)-2,3-dihydro-[1,4]oxazino[2,3,4-hi]indol-6-yl)(naphthalen-1-yl)methanone methanesulfonate; methanesulfonic acid; [(11R)-2-methyl-11-(morpholin-4-ylmethyl)-9-oxa-1-azatricyclo[6.3.1.04,12]dodeca-2,4(12),5,7-tetraen-3-yl]-naphthalen-1-ylmethanone; (R)-5-Methyl-3-(morpholinomethyl)-6-(1-naphthylcarbonyl)-2,3-dihydro-[1,4]oxazino[2,3,4-hi]indole Methanesulfonate; [(3R)-2,3-dihydro-5-methyl-3-(4-morpholinylmethyl)pyrrolo[1,2,3-de]-1,4-benzoxazin-6-yl]-1-naphthalenyl-methanone, monomethanesulfonate

CATALOG #:
B3012-5 5 mg
B3012-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{28}H_{30}N_2O_6S$

MOLECULAR WEIGHT: 522.6

CAS NUMBER: 131543-23-2

APPEARANCE: White to off-white Powder

PURITY: >98%

SOLUBILITY: ~30 mg/ml in DMSO and DMF

DESCRIPTION: (+)-WIN 55,212-2 (mesylate) is a potent aminoalkyl indole cannabinoid (CB) receptor agonist with K_i values of 62.3 and 3.3 nM for human recombinant CB1 and CB2 receptors, respectively. It shows antihyperalgesic and anti-inflammatory properties. It (0.01-100 nM) increases extracellular glutamate levels, displaying a bell-shaped concentration-response curve in primary cultures of rat cerebral cortex neurons. It also evokes CGRP release from trigeminal ganglion neurons in vitro (EC_{50}=26 µM) in a concentration- and calcium-dependent manner.

STORAGE TEMPERATURE: -20ºC. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Felder, C.C., Joyce, K.E., Briley, E.M., et al. Comparison of the pharmacology and signal transduction of the human cannabinoid CB1 and CB2 receptors. Mol. Pharmacol. 48(3), 443-450 (1995).
2. Price, T.J., Patwardhan, A., Akopian, A.N., et al. Cannabinoid receptor-independent actions of the aminoalkylindole WIN 55,212-2 on trigeminal sensory neurons. Br. J. Pharmacol. 142(2), 257-266 (2004).
3. Ferraro, L., Tomasini, M.C., Gessa, G.L., et al. The cannabinoid receptor agonist WIN 55,212-2 regulates glutamate transmission in rat cerebral cortex: An in vivo and in vitro study. Cereb. Cortex 11(8), 728-733 (2001).

RELATED PRODUCTS:

2-Arachidonoylglycerol (Cat. No. B2992)
BAY 59-3074. (Cat. No. B1247)
JZL195 (Cat. No. B1064)
EZSolution™ MAFP (Cat. No. 2811)
Leelamine hydrochloride (Cat. No. 2717)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***