PRODUCT INFORMATION

(+)-WIN 55,212-2 (mesylate)
Item No. 10009023

CAS Registry No.: 131543-23-2
Formal Name: [(3R)-2,3-dihydro-5-methyl-3-(4-morpholinylmethyl)pyrrolo[1,2,3-de]-1,4-benzoxazin-6-yl]-1-naphthalenylmethanone, monomethanesulfonate
MF: C27H26N2O3 • CH3SO3H
FW: 522.6
Purity: ≥98%
UV/Vis.: \(\lambda_{\text{max}}\): 219, 246, 330 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(+)-WIN 55,212-2 (mesylate) is supplied as a crystalline solid. A stock solution may be made by dissolving the (+)-WIN 55,212-2 (mesylate) in the solvent of choice. (+)-WIN 55,212-2 (mesylate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of (+)-WIN 55,212-2 (mesylate) is approximately 5 mg/ml in ethanol and approximately 30 mg/ml in DMSO and DMF.

(+)-WIN 55,212-2 (mesylate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (+)-WIN 55,212-2 (mesylate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. (+)-WIN 55,212-2 (mesylate) has a solubility of approximately 0.25 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

(+)-WIN 55,212-2 (mesylate) is a potent aminoalkylindole cannabinoid (CB) receptor agonist with \(K_i\) values of 62.3 and 3.3 nM for human recombinant CB1 and CB2 receptors, respectively.1 In primary cultures of rat cerebral cortex neurons, (+)-WIN 55,212-2 (mesylate) (0.01-100 nM) increases extracellular glutamate levels, displaying a bell-shaped concentration-response curve.2 This effect is fully counteracted by rimonabant (Item No. 9000484) at a concentration of 10 nM, by decreasing Ca\(^{2+}\) concentrations below 0.2 mM, or by the IP3 receptor antagonist xestospongin C (Item No. 64950) at a concentration of 1 µM. (+)-WIN 55,212-2 (mesylate) induces release of the proinflammatory neuropeptide CGRP from trigeminal ganglion (TG) neurons in a calcium-dependent manner with an EC\(_{50}\) value of 26 µM.3

References