LKT Laboratories, Inc.

WIN 55,212-2 Mesylate

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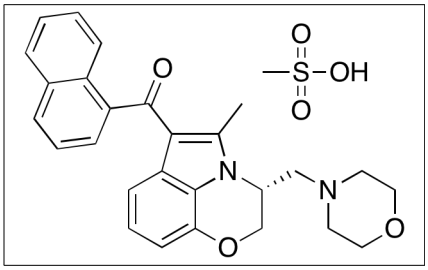
Product Information

Product ID W317520
CAS No. 131543-23-2
Chemical Name (R)-(+)-[2,3-Dihydro-5-methyl-3[(4-morpholinyl)methyl]pyrrolo[1,2,3-de]-1,4-benzoxazinyl]-(1-naphthalenyl)methanone mesylate salt
Synonym WIN 55212-2 methanesulfonate, WIN 552122 mesylate



Formula $C_{28}H_{30}N_2O_6S$
Formula Wt. 522.61
Melting Point
Purity ≥98%
Solubility DMSO (12 mg/mL)

Bulk quanitites available upon request

Product ID	Size
W317520	5 mg
W317520	25 mg
W317520	100 mg

Store Temp -20˚C
Ship Temp Ambient
Description WIN 55,212-2 (WIN)is a potent, non-selective synthetic cannabinoid agonist. It shows activity in a variety of disease states. Recent work demonstrates the ability of WIN as a pain analgesic, anti-cancer and anti-Alzheimer's compound. In studies using colon carcinoma cell lines, WIN decreases cell proliferation of colon cancer cells. Additionally WIN down-regulated protein phosphatase 2A, a different mechanism than other cannabinoid agonists. WIN also decreases the effects of Amyloid 1-42 effects on primary mouse astrocyte cell culture. WIN inhibits the over-expression of interleukin-1 and tumor necrosis factor-, common signs of A over expression. Additionally, in a murine pain model, WIN decreased the response to pain stiumuli in mouse models of cancer pain.

References

Aquirre-Rueda D, Guerra-Ojeda S, Aldasoro M et al. WIN 55,212-2, agonist of cannabinoid receptors, prevents amyloid beta1-42 effects on astrocytes in primary culture. PLoS One. 2015 Apr 13;10(4):e0122843. PMID: 25874692.

Sreevalsan S, and Safe S. The cannabinoid WIN 55,212-2 decreases specificity protein transcription factors and the oncogenic cap protein eIF4E in colon cancer cells. Mol Cancer Ther. 2013 Nov;12(11):2483-93. PMID: 24030632.

Uhelski ML, Cain DM, Harding-Rose C, and Simone DA. The non-selective cannabinoid receptor agonist WIN 55,212-2 attenuates responses of C-fiber nociceptors in a murine model of cancer pain. Neuroscience. 2013 Sep 5; 247:84-94. PMID: 23673278.