

## Drug Status Report

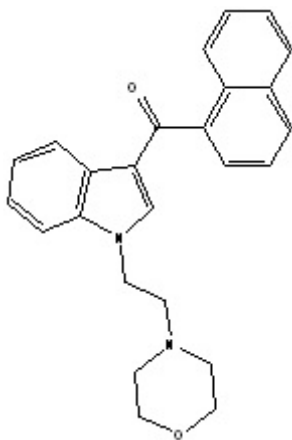
**Drug:** JWH-200

**Drug Name Status:** JWH-200 is the common name.

**Chemical Name:** (1-(2-morpholinoethyl)-1H-indol-3-yl)(naphthalen-1-yl)methanone

**Other Names:** [1-(2-(4-morpholinyl)ethyl)-1H-indole-3-yl]-1-naphthalenyl-methanone

**Chemical structure:**



**Molecular Formula:** C<sub>25</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>

**Pharmacological class / Application:** Cannabinoid receptor agonist.

**International status:**

US: The substance is not listed on the schedules to the US Controlled Substances Act.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: JWH-200 is one of several synthetic cannabimimetic substances that were synthesized to assess the binding affinities of a series of 3-(alkoxy-1-naphthoyl)indoles to the CB<sub>1</sub> and CB<sub>2</sub> receptors<sup>1</sup>. JWH-200 has been reported in the literature to have a strong binding affinity for the CB<sub>1</sub> receptor, and display a potent agonist activity which is comparable to that of

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<sup>1</sup>Padgett, LW. (2005) Recent developments in cannabinoid ligands, Life Sci. 77: 2767-798.

the cannabinoid receptor agonist (+)-WIN-55,212<sup>2</sup>.

Cannabinoid receptor agonists have been declared to be included within item 1 of Schedule II to the CDSA by virtue of being “similar synthetic preparations.” Cannabinoid receptor antagonists have been declared to fall outside item 1 of Schedule II to the CDSA. Given the high affinity of JWH-200 for the CB<sub>1</sub> receptors as well as *in vivo* evidence of its potent agonist activity, JWH-200 should be included in item 1 of Schedule II.

Recommendation: JWH-200 is included in item 1 of Schedule II to the CDSA and is a controlled substance.

February 25<sup>th</sup>, 2010

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<sup>2</sup>Compton, DR. *et al.* (1991) Aminoalkylindole analogues: Cannabimimetic activity of a class of compounds structurally distinct from  $\Delta^9$ -tetrahydrocannabinol. *J. Pharmacol. Exp. Ther.* **263**:1118-1126.