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:**

![Chemical structure of JWH-200](image)

**Molecular Formula:** $C_{25}H_{24}N_2O_2$

**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 $\text{CB}_1$ and $\text{CB}_2$ receptors$^1$. JWH-200 has been reported in the literature to have a strong binding affinity for the $\text{CB}_1$ receptor, and display a potent agonist activity which is comparable to that of

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the cannabinoid receptor agonist (+)-WIN-55,212².

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 CB₁ 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 25th, 2010