Drug Status Report

**Drug**: JWH-250

**Drug Name Status**: JWH-250 is the common name.

**Other Names**: 1-Pentyl-3-(2-methoxyphenylacetyl)indole

**Chemical Name**: 2-(2-Methoxyphenyl)-1-(1-pentylnol-3-yl)ethanone

**Chemical structure**:

![Chemical structure diagram]

**Molecular Formula**: C$_{22}$H$_{25}$NO$_2$

**Pharmacological class / Application**: cannabinoid receptor ligand

**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-250 is one of several series of synthetic cannabimimetic substances that was prepared to assess its affinity for the CB1 and CB2 receptors$^1$. It has been shown to have moderate affinity for both receptors. Its efficacy as an agonist or antagonist has not yet been

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Status decisions have been made on several other cannabinoid receptor agonists and antagonists. See decisions for anandamide; methanandamide; WIN 555212; JWH 015; O-2050, CP55940, AM630, AM251 and SR 141716A. 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. Without evidence that JWH-250 is a cannabinoid receptor agonist, it should be considered to be not included in item 1 of Schedule II.

Recommendation: JWH-250 is not included in item 1 of Schedule II to the CDSA and is not a controlled substance.

October 14, 2009