Health Canada Santé Canada

STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance: JWH-147

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled ☐
Not Controlled ✓

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

- The substance has not been shown to be an efficacious cannabinoid receptor agonist and therefore JWH-147 cannot be included under Item 1 of Schedule II to the CDSA

Prepared by: _____ Date: May 17, 2011
Zack Li

Verified by: _____ Date: _____
Mark Kozlowski

Approved by: _____ Date: _____
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: "third party information removed as per agreement with applicant"

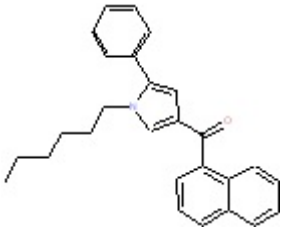
Drug Status Report

Drug: JWH-147

Drug Name Status: JWH-147 is the common name.

Chemical Name: 1-Hexyl-2-phenyl-4-(1-naphthoyl)pyrrole

Chemical structure:



Molecular Formula: $C_{27}H_{27}NO$

CAS RN: 914458-20-1

Pharmacological class / Application: Synthetic cannabinoid

International status:

US: JWH-147 is not listed on the schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: JWH-147 is one of several synthetic cannabimimetic substances that were synthesized and assessed for their affinities towards the CB_1 and CB_2 receptors[1]. "Cannabis, its preparations, derivative and similar synthetic preparations" are currently controlled under item 1

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[1]Huffman J.W., et al (2006) 1-Alkyl-2-aryl-4-(1-naphthoyl)pyrroles: New high affinity ligands for the cannabinoid CB_1 and CB_2 receptors. Bioorg Med Chem Lett, **16**: 5432-5.

of Schedule II to the CDSA. However, while JWH-147 has been reported to display a high binding affinity to both CB_1 and CB_2 receptors (K_i of 11±1 and 7.1±0.2 respectively)[2], there are presently no reports in the scientific literature on the efficacy of JWH-147 as a cannabinoid receptor agonist. Therefore, the substance cannot be included under Item 1 of Schedule II to the CDSA.

Recommendation: JWH-147 is not included in the Schedules to the CDSA and is not a controlled substance.

Date: May 17, 2011

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[2]Ibid