Health Canada
Santé Canada

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

Substance: JWH-080

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

Controlled	X
Not Controlled	☐

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

- JWH-080 is an efficacious cannabinoid CB_1 receptor agonist and therefore is included under item 1 of Schedule II to the CDSA.

Prepared by: _____ Date: 28th March 2012
Evelyn Soo

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"

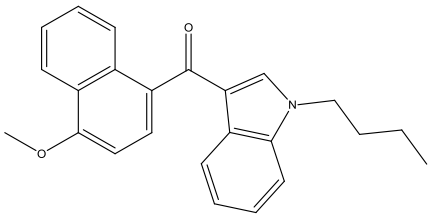
Drug Status Report

Drug: JWH-080

Drug Name Status: JWH-080 is the common name.

Chemical Name: (1-Butyl-1H-indol-3-yl)(4-methoxy-1-naphthalenyl)methanone

Chemical structure:



Molecular Formula: $C_{24}H_{23}NO_2$

Pharmacological class / Application: Synthetic Cannabinoid

CAS-RN: 210179-44-5

International status:

US: JWH-080 is not listed in the Schedules to the US *Controlled Substances Act* (CSA) 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-080 is not listed specifically in the Schedules to the CDSA. The substance is a synthetic cannabinoid, which has been reported in the scientific literature to display a strong binding affinity for the cannabinoid CB_1 receptor (Ki= 7.6 ± 1.0 nM)[1]. In addition, the substance has also been reported to be an efficacious cannabinoid receptor agonist in *in vivo* studies[2] and therefore is captured under the heading "Cannabis, its preparations, derivatives and similar synthetic preparations, including" of item 1 of Schedule II to the CDSA.

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[1]Aung, MM (2000) Influence of the N-1 alkyl chain length of cannabimimetic indoles upon CB1 and CB2 receptor binding, Drug and Alcohol Dependence, **60**:133-140.

[2] Huffman, JW. Cannabimimetic indoles, pyrroles, and indenes: Structure-activity relationships and receptor interactions. In: Reggio, PH. (Ed) The Cannabinoid Receptors, 2009, Humana Press, New Yark, NU, USA, pp49-94 (ED_{50} μmol/kg: SA=7.8; TF=4.3; RT=2.4).

Recommendation: JWH-080 is included under item 1 of Schedule II to the CDSA and is a controlled substance.

Date: March 27th, 2012.