Health Canada
Santé Canada

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

Substance: AM-1235

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):

- It has not been established as to whether this substance is an efficacious cannabinoid receptor agonist and therefore it cannot included under item 1 of Schedule II to the CDSA.

Prepared by: _____ Date: _____
Vincent Marleau

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

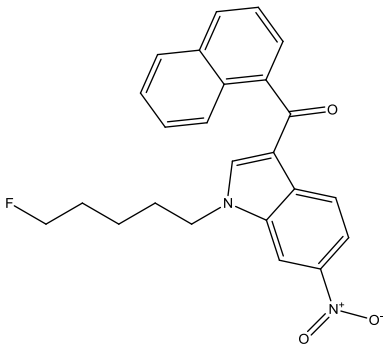
Drug: AM-1235

Drug Name Status: AM-1235 is the common name.

Chemical Name: [1-(5-fluoropentyl)-6-nitro-1H-indol-3-yl]-1-naphthalenyl-methanone

Other Names: AM 1235;

Chemical structure:



Molecular Formula: $C_{24}H_{21}FN_2O_3$

Pharmacological class / Application: Synthetic cannabinoid

CAS-RN: 335161-27-8

International status:

US: AM-1235 is not listed specifically in the Schedules to the US *Controlled Substances Act* and is not mentioned anywhere on the DEA website.

United Nations: The substances are 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: AM-1235 is not listed in the CDSA. The substance is a synthetic cannabinnoid, which has been reported in the scientific literature to display strong binding affinities for the CB_1 cannabinoid receptor (Ki= 1.5 nM) and the CB_2 cannabinoid receptor (Ki= 20.4 nM).[1] "Cannabis, its preparations, derivative and similar synthetic preparations" are currently controlled under item 1 of Schedule II to the CDSA. However, while AM-1235 has been reported to display a high binding affinity to both CB_1 and CB_2 receptors, there are

[1]Makriyannis, A. and H. Deng (2001) Cannabimimetic Indole Derivatives, International Application No.: PCT/US2000/028832.

presently no reports in the scientific literature on the efficacy of AM-1235 as a cannabinoid receptor agonist. Therefore, the substance cannot be included under Item 1 of Schedule II to the CDSA.

Recommendation: AM-1235 is not included under Item 1 of Schedule II to the CDSA and is not a controlled substance.

Date: August 24th, 2012.