Health Canada Santé Canada

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

Substance: (4-Methyl-1-naphthalenyl) (1-fluorpentyl-1H-indol-3-yl) methanone

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 is a synthetic cannabinoid but there is currently no information in the scientific literature regarding its efficacy as a cannabinoid receptor agonist and therefore it cannot included under item 1 of Schedule II to the CDSA.

Prepared by: _____ Date: February 13th, 2012
Vincent Marleau

Verified by: _____ Date: _____
Mark Kozlowski

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

This status was requested by: Elaine Radulski

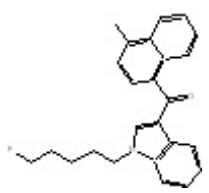
Drug Status Report

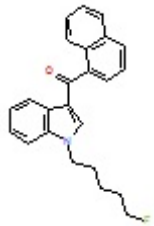
Drug: (4-Methyl-1-naphthalenyl) (1-fluorpentyl-1H-indol-3-yl) methanone

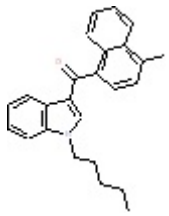
Drug Name Status: MAM-22-1 is the common name.

Chemical Name: (4-Methyl-1-naphthalenyl) (1-fluorpentyl-1H-indol-3-yl) methanone

Chemical structure:







AM-2201 **JWH-122**

Molecular Formula: $C_{25}H_{24}FNO$

Pharmacological class / Application: Synthetic cannabinoid

CAS-RN: N/A

International status:

US: (4-Methyl-1-naphthalenyl) (1-fluorpentyl-1H-indol-3-yl) methanone 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 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: (4-Methyl-1-naphthalenyl) (1-fluorpentyl-1H-indol-3-yl) methanone is not listed specifically in the CDSA. The substance is a synthetic cannabinoid, which have been reported to display potent binding affinities for the cannabinoid CB_1 and CB_2 receptors. However, there is currently no information in the scientific literature regarding its efficacy as a cannabinoid receptor agonist. (4-Methyl-1-naphthalenyl) (1-fluorpentyl-1H-indol-3-yl) methanone is structurally similar to AM-2201, which has been declared not controlled and JWH-122, which has been controlled. Cannabinoid receptor agonists have been declared to be included under item 1 of Schedule II to the CDSA while cannabinoid receptor antagonists are specifically excluded. Given that there is currently no information in the scientific literature on

the efficacy of this substance as a cannabinoid receptor agonist, the substance cannot be included under item 1 of Schedule II to the CDSA.

Recommendation: (4-Methyl-1-naphthalenyl) (1-fluorpentyl-1H-indol-3-yl) methanone is not included under item 1 of Schedule II to the CDSA and is not a controlled substance.

Date: February 13th, 2012.