Drug Status Report

Drug: (R,S)-AM1241

Drug Name Status: AM1241 is the common name.

Chemical Name: (R,s)-(2-iodo-5-nitrophenyl)-{1-(1-methyl-piperidin-2-yl)methyl}-1H-indol-3-yl]-methanone

Chemical structure:

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\text{Chemical structure image}
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Molecular Formula: \(C_{22}H_{22}IN_2O_3\)

Pharmacological class / Application: cannabinoid receptor agonist

International status:

US: (R,S)-AM1241 is not listed in the Schedules to the CSA and is not mentioned on the DEA website

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: (R,S)-AM1241 is an aminoalkylindole compound and has been shown to produce selective, agonist activity at the \(CB_2\) cannabinoid receptor\(^1\). 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. Given the selectivity of (R,S)-AM1241 for the CB2 receptors as well as in vivo evidence of its potent agonist activity, (R,S)-AM1241 should be included in item 1 of Schedule II to the CDSA.

Recommendation: (R,S)-AM1241 is included in item 1 of Schedule II to the CDSA and is a controlled substance.

April 6\textsuperscript{th}, 2010.