

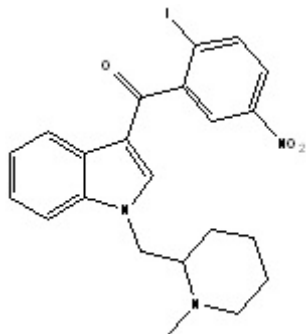
Drug Status Report

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:



Molecular Formula: C₂₂H₂₂IN₂O₃

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 CB₂ cannabinoid receptor¹. 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.

¹Rahn, EJ. *et al.* (2010) Antinociceptive effects of racemic AM1241 and its chirally synthesized enantiomers: lack of dependence on opioid receptor activation, *The AAPS J.* **12**: 147-157.

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

April 6th, 2010.