Drug Status Report

Drug: AM 694

Drug Name Status: AM 694 is the common name.

Chemical Name: 1-(5-fluoropentyl)-3-(2-iodobenzoyl)indole

Chemical structure:

Molecular Formula: C_{20}H_{19}F\text{INO}

Pharmacological class / Application: Synthetic cannabinoid

International status:

US: The substance is not listed on the schedules to the US Controlled Substances Act.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: AM 694 is a synthetic cannabimimetic substance that has been reported in the literature to bind to the cannabinoid CB\textsubscript1 and CB\textsubscript2 receptors, with particularly high binding affinity for the CB\textsubscript1 receptor\textsuperscript1. The substance has also found potential use as a probe for \textit{in vivo} imaging of the CB\textsubscript1 receptor\textsuperscript2. While the substance is claimed to be a potent cannabinoid receptor agonist, there is no data in the current scientific literature on the efficacy of the substance as a cannabinoid receptor agonist.

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. Although AM 694 is known to display high binding affinity for the CB\textsubscript1 receptor, the substance cannot currently be included under item 1 of Schedule II to the CDSA as there is no evidence that the substance is an


efficacious cannabinoid receptor agonist. The decision not to include JWH-250 under item 1 of Schedule II to the CDSA was also based on the lack of evidence that JWH-250 is an efficacious cannabinoid receptor agonist.

Recommendation: AM694 is not included in item 1 of Schedule II to the CDSA and is not a controlled substance.

September 20th, 2010