

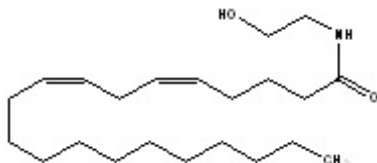
Drug Status Report

Drug: Mead acid ethanolamide

Drug Name Status: Mead acid ethanolamide is the common name.

Chemical Name: 5Z,8Z,11Z-eicosatrienoic acid

Chemical structure:



Molecular Formula: C₂₁H₄₁NO₂

Pharmacological class / Application: Endocannabinoid

International status:

US: Mead acid ethanolamide 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: Mead acid ethanolamide has been shown in the scientific literature to act as an agonist at the cannabinoid CB₁ and CB_{2r} receptors, and display a greater binding affinity for the CB₁ receptor¹². 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, however, have been declared to fall outside item 1 of Schedule II to the CDSA. Accordingly, mead acid ethanolamide is considered to be included under item 1 of Schedule II to the CDSA.

Recommendation: Mead acid ethanolamide is included in item 1 of Schedule II to the CDSA and is a controlled substance.

¹Priller, J. *et al.* (1995) Mead ethanolamide, a novel eicosanoid, is an agonist for the central (CB1) and peripheral (CB2) cannabinoid receptors, *Mol. Pharmacol.* **48**:288-292.

²Felder, CC. *et al.* (1995) Comparison of the pharmacology and signal transduction of the human cannabinoid CB1 and CB2 receptors, *Mol. Pharmacol.* **48**:443-450.

April 8th, 2010.