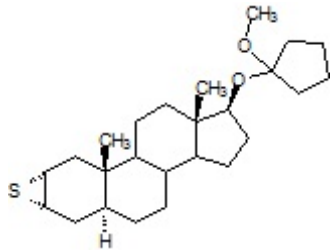
Drug Status Report

Drug: Mepitiostane (I)

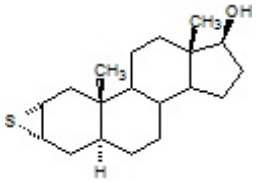
Drug Name Status: Mepitiostane is the proper (INN) name.

Chemical Name: (2alpha,3alpha,5alpha,17beta)-2,3-epithio-17-((1-methoxycyclopentyl)oxy)-androstane

Chemical structure:



I



Epitiostanol

Molecular Formula: $C_{25}H_{40}O_2S$

Pharmacological class / Application: Anabolic steroid; antineoplastic

International status:

US: The substance is not listed on the schedules to the US Controlled Substances Act. However, as an anabolic steroid, mepitiostane is likely controlled under the CSA definition of anabolic steroid, "any drug or hormonal substance, chemically and pharmacologically related to testosterone (other than estrogens, progestins, and corticosteroids) that promotes muscle growth".

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: Mepitiostane is structurally related to epitiostanol which is listed as subitem 23(13) of Schedule IV to the CDSA. It has been shown to have anabolic activity[1]. Therefore mepitiostane is included in item 23 of Schedule IV, "Anabolic steroids and their derivatives."

Recommendation: Mepitiostane is included in item 23 of Schedule IV to the CDSA is a controlled substance.
November 22, 2009

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[1] Muraoka Y, Yahara I, Nara H, Watanabe H. Experientia. 1981 Apr 15;37(4):389-90.