Drug Status Report

Drug: 5alpha-Androstane-3,17-diol

Drug Name Status: 5alpha-Androstane-3,17-diol is a common name

Chemical Name: (3alpha,5alpha,17beta)-Androstane-3,17-diol;

(3beta,5alpha,17beta)-Androstane-3,17-diol

Chemical structure:

There are two possible isomers of this substance at the 3 position.

Molecular Formula: C₁₉H₃₂O₂

Pharmacological class / Application: steroid

International status:

US: The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, as "anabolic steroid" means, in the CSA, any drug or hormonal substance, chemically and pharmacologically related to testosterone ... that promotes muscle growth, 5alpha-androstane-3,17-diol may be controlled in the US.

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: The substance is currently not listed specifically on the CDSA. Both isomers of the substance have been shown¹ to be derivatives (metabolite) of testosterone, subitem 23(40) of Schedule IV to the CDSA. Both isomers of 5alpha-androstane-3,17-diol therefore must be considered to be included in item 23 of Schedule IV, anabolic steroids.

Recommendation: The 3α and 3β isomers of 5alpha-androstane-3,17-diol are included in item 23 of Schedule IV to the CDSA and are controlled substances.

March 21, 2007

¹ Brind JL, Marinescu D, Gomez EC, Wheatley VR and Orenteich N, J. Endocrinology, 100, (3) 377-388 (1984).