



STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance: 5-beta-androstanedione

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled X
Not Controlled []

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The drug is currently not listed specifically on the CDSA
Item 23 of Schedule IV to the CDSA is, "Anabolic steroids and their derivatives including." Subitem 40 of this item is testosterone.
It has been demonstrated that 5-beta-androstanedione is a metabolite of testosterone found in the liver
5-beta-Androstanedione is therefore a derivative of testosterone and included in item 23 of Schedule IV to the CDSA

Supporting document(s) attached: X

Prepared by: SHEREEN KHAN Date:

Verified by: See email MICHAEL LEBELLE Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

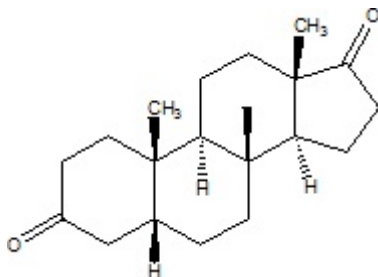
Drug Status Report

Drug: 5-beta-androstanedione

Drug Name Status: 5-beta-androstanedione is a common name

Chemical Name: 5β-Androstane-3,17-dione

Chemical structure:



Molecular Formula: C₁₉H₂₈O₂

Pharmacological class / Application: metabolite of testosterone

International status:

US: The chemical is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. The 5alpha isomer of the subject substance is listed on Schedule III to the CSA; it is listed explicitly as “5alpha-androstan-3,17-dione” implying that the 5beta isomer is not included in this item. However, the substance’s status under the CSA would need to be confirmed with the DEA.

United Nations: The chemical 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: The drug is currently not listed specifically on the CDSA. Item 23 of Schedule IV to the CDSA is, “Anabolic steroids and their derivatives including.” Subitem 40 of this item is testosterone. Stern et al.¹ demonstrated that 5-beta-androstanedione is a metabolite of testosterone found in the liver. 5-beta-Androstanedione is therefore a derivative of testosterone and included in item 23 of Schedule IV to the CDSA.

¹ Stern MD, Ling W, Coutts JR and MacNaughton MC, J. Clin. Endocrinol. Metab. 40, 1057 (1975)

Recommendation: Based on this information, 5-beta-androstanedione is included in the Item 23 of Schedule IV to the CDSA and is a controlled substance.

February 1, 2006