



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

Substances: 5alpha-androstane-3beta,16alpha,17beta-triol
5alpha-androstane-3beta,16beta,17beta-triol

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

Controlled [ ]
Not Controlled [X]

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

- These drugs are currently not listed specifically on the CDSA.
The structure of these substances is not similar to any substance on the schedules to the CDSA.
The 3-alpha isomer of 5alpha-androstane-3beta,16alpha,17beta-triol, namely, 5alpha-Androstane-3alpha,16alpha, 17beta-triol has been shown to be a metabolite1 of testosterone.
However, there are no reports that 5alpha-androstane-3beta,16alpha,17beta-triol or 5alpha-androstane-3beta,16beta,17beta-triol are anabolic steroid metabolites and there are no reports that these substances have anabolic activity.

Supporting document(s) attached: X

Prepared by: TIANA BRANCH Date: 2005-07-14

Verified by: See email Date: 2005-07-07
MICHAEL LEBELLE

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

## Drug Status Report

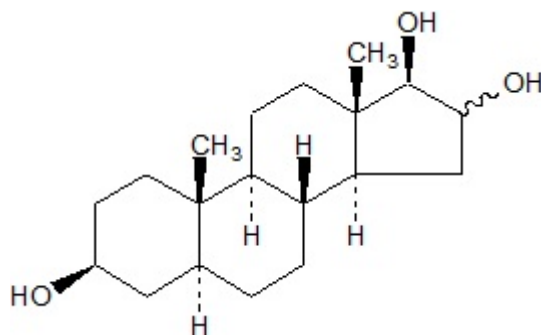
**Drugs:** 5alpha-Androstane-3beta,16alpha,17beta-triol; 5alpha-androstane-3beta,16beta,17beta-triol

**Drug Name Status:** 5alpha-Androstane-3beta,16alpha,17beta-triol and 5alpha-androstane-3beta,16beta,17beta-triol are the chemical names.

**Chemical Names:** 5alpha-Androstane-3beta,16alpha,17beta-triol;  
5alpha-androstane-3beta,16beta,17beta-triol

**Other Names:** Androstanetriol

**Chemical structure:**



The difference between 5alpha-androstane-3beta,16alpha,17beta-triol and 5alpha-androstane-3beta,16beta,17beta-triol is the configuration of the 16-hydroxyl. The wiggly line indicates the hydroxyl may be either alpha or beta.

**Molecular Formula:** C<sub>19</sub>H<sub>32</sub>O<sub>3</sub>

**Pharmacological class / Application:** steroid

**International status:**

US: The drug is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website.

United Nations: The drug 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. The structure of the substance is not similar to any substance on the schedules to the CDSA. The 3-alpha isomer of 5alpha-androstane-3beta,16alpha,17beta-triol, namely, 5alpha-Androstane-3alpha,16alpha,

17beta-triol has been shown to be a metabolite<sup>1</sup> of testosterone. However, there are no reports that 5alpha-androstane-3beta,16alpha,17beta-triol or 5alpha-androstane-3beta,16beta,17beta-triol are anabolic steroid metabolites and there are no reports that these substances have anabolic activity.

**Recommendation: Based on the information available, 5alpha-androstane-3beta,16alpha,17beta-triol and 5alpha-androstane-3beta,16beta,17beta-triol are not included in the schedules to the CDSA and are not controlled substances.**

July 7, 2005

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<sup>1</sup> Tcholakian RK, Steinberger A, Newaz SN. J Steroid Biochem. 1987 May;26(5):619-25.