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

Substance: 3-alpha-hydroxy-5-beta-androstan-11,17-dione
(11-Ketoetiocholanolone)

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):

• The drug is currently not listed specifically on the CDSA.
• There is no information available that suggests that 11-ketoetiocholanolone is a derivative of the anabolic steroids.
• Roelfsema et al.1 exclude 11-ketoetiocholanolone from the androgen
metabolites while including etiocholanolone and classify it as a cortisol
metabolite. Cortisol is not an anabolic steroid.

Supporting document(s) attached: X

Prepared by: ________________________________ Date: 2005-06-23
TIANA BRANCH

Verified by: __See email______________________ Date: 2005-06-23
MICHAEL LEBELLE

Approved by: ________________________________ Date: ____________
DIRECTOR, OFFICE OF
CONTROLLED SUBSTANCES

Drug Status Report

**Drug:** 3-alpha-hydroxy-5-beta-androstan-11,17-dione

**Drug Name Status:** 11-Ketoetiocholanolone is the common name

**Chemical Name:** (3alpha,5beta)-3-hydroxy-androstan-11,17-dione

**Chemical structure:**

![Chemical structure](image)

**Molecular Formula:** $C_{19}H_{28}O_3$

**Pharmacological class / Application:** metabolite of cortisol

**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. There is no information available that suggests that 11-ketoetiocholanolone is a derivative of the anabolic steroids. Roelfsema et al.² exclude 11-ketoetiocholanolone from the androgen metabolites while including etiocholanolone and classify it as a cortisol metabolite. Cortisol is not an anabolic steroid.

Recommendation: 3-alpha-Hydroxy-5-beta-androstan-11,17-dione is not included in the Schedules to the CDSA and is not a controlled substance. It follows that derivatives of 3-alpha-hydroxy-5-beta-androstan-11,17-dione such as 3-alpha-Hydroxy-5-beta-androstan-11,17-dione glucuronide and 3-alpha-Hydroxy-5-beta-androstan-11,17-dione sulfate are also not controlled substances.

June 23, 2005

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