



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

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

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 and anabolic steroid.
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 sulfate are also not controlled substances.

Supporting document(s) attached: X

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

Verified by: See email Date: 2005-06-23
MICHAEL LEBELLE

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

1 Roelfsema, F, Moolenaar AJ and Frolich, M, Acta Endocrinol (Copenh) 107, 302 (1984)

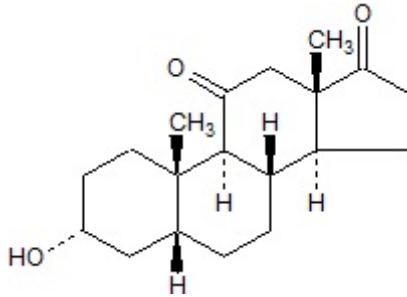
## Drug Status Report

**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:



**Molecular Formula:** C<sub>19</sub>H<sub>28</sub>O<sub>3</sub>

**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.<sup>2</sup> exclude 11-ketoetiocholanolone from the androgen metabolites while including etiocholanolone and classify it as a cortisol metabolite. Cortisol is not and 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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<sup>2</sup> Roelfsema, F, Moolenaar AJ and Frolich, M, Acta Endocrinol (Copenh) 107, 302 (1984)