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

Substance: 4beta-hydroxydehydroepiandrosterone

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

- Controlled  
- Not Controlled  

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

- The substance has not been reported in the literature to display any anabolic activity and has not been shown to be a derivative of DHEA (prasterone). Therefore, the substance is not included under Item 23 of Schedule IV to the CDSA.

Prepared by:  

Date:  

Zack Li

Verified by:  

Date:  

Mark Kozlowski

Approved by:  

Date:  

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Nacer Silarbi, OCS
Drug Status Report

Drug: 4beta-hydroxydehydroepiandrosterone

Drug Name Status: 4beta-hydroxydehydroepiandrosterone is the common name.

Other Names: 4β-Hydroxy-DHEA; 4β-Hydroxyprasterone.

Chemical structure:

Molecular Formula: C_{19}H_{28}O_{3}

CAS RN: 63518-24-1

Pharmacological class / Application: Steroid

International status:

US: 4-beta-hydroxydehydroepiandrosterone is not listed on the schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: 4beta-hydroxydehydroepiandrosterone is a steroid hormone that is sold as an analytical reference standard for dehydroepiandrosterone. The substance is structurally similar to dehydroepiandrosterone, which is currently listed as sub-item 23(36) in Schedule IV to the CDSA as prasterone (3β-hydroxyandrost-5-en-17-one, under the heading “Anabolic steroids and their derivatives”. However, there is presently no evidence in the scientific literature that suggests that 4beta-hydroxydehydroepiandrosterone is an anabolic steroid or a derivative of DHEA. Therefore, the substance cannot be included under item 23 of Schedule IV to the CDSA.
**Recommendation:** 4beta-hydroxydehydroepiandrosterone is not included in the Schedules to the CDSA and is not a controlled substance.

**Date:** May 17, 2011