



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

Substance: 6-oxirane boldenone

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 substance is an analogue of boldenone and a derivative of exemestane. It is therefore not included under item 23(7) of Schedule IV to the CDSA.

Prepared by: Evelyn Soo Date: Sept 20th 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: third party information removed as per agreement with applicant

Drug Status Report

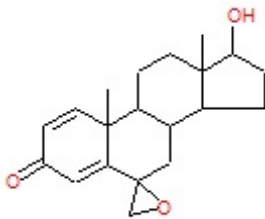
Drug: 6-Oxirane boldenone

Drug Name Status: 6-Oxirane boldenone

Chemical Name: 17beta-Hydroxy-6alpha/beta-spirooxiranandrosta-1,4-diene-3-one

Other Names: (6alpha,17beta)-17-Hydroxyspiro[androsta-1,4-diene-6,2?-oxiran]-3-one;
17beta-Hydroxy-6alpha-spiro[androsta-1,4-diene-6,2-oxiran]-3-one;
Exemestane Epoxide Metabolite

Chemical structure:



Molecular Formula: C₂₀H₂₆O₃

Pharmacological class / Application: Steroid derivative

CAS-RN: None

International status:

US: The substance is not listed specifically in the 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 6-oxirane boldenone is considered to be an analogue of boldenone and is a derivative of exemestane¹. The substance has not been reported in the scientific literature to display any anabolic activity and it is not listed in the CDSA. Boldenone, however, is presently listed in the CDSA as item 23(7) of Schedule IV, under the heading “Anabolic steroids and their derivatives including”. However, since 6-oxirane boldenone is not a derivative of boldenone, the substance is not included under item 23(7) of Schedule IV to the CDSA. In addition, analogues

¹Buzzetti F et al. (1993) Synthesis of aromatase inhibition by potential metabolites of exemestane (6-methylenandrosta-1,4-diene-3,17-dione), Steroids, **58**:527.

of anabolic steroids are not included in the heading of item 23 of Schedule IV to the CDSA.

Recommendation: 6-Oxirane boldenone is not included in the Schedules to the CDSA and is not a controlled substance.

Date: 20 September 2010