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

Substance: S-22

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 displays anabolic activity but is not a steroid and therefore cannot be included under the CDSA.

Prepared by: _______________________________ Date: March 1st, 2012
Vincent Marleau

Verified by: _______________________________ Date: _______
Mark Kozlowski

Approved by: _______________________________ Date: _______
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Sandra Jarvis
Drug Status Report

Drug: S-22

Drug Name Status: S-22 is the common name.

Chemical Name:
3-(4-cyano-phenoxy)-N-(4-cyano-3-trifluoromethylphenyl)-2-hydroxy-2-methyl-propionamide

Chemical structure:

Molecular Formula: C_{19}H_{14}F_{3}N_{3}O_{3}

Pharmacological class / Application: Androgen receptor modulator

CAS-RN: N/A

International status:

US: S-22 is not listed in the schedules to the US Controlled Substances Act and is not mentioned 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: S-22 is not listed in the schedules to the CDSA. The substance is a selective androgen receptor modulator (SARM) and has been reported in the scientific literature to display properties similar to the anabolic androgenic steroids (AAS). However, as S-22 is not a steroid, it cannot be included under the heading “Anabolic steroids and their derivatives including” of Item 23 of Schedule IV to the CDSA.

Recommendation: S-22 is not included under Item 23 of Schedule IV to the CDSA and is not a controlled substance.

Date: March 1st, 2012.


2 Thevis, Mario et al. (2010), Characterization of in vitro generated metabolites of the selective androgen receptor modulators S-22 and S-23 and in vivo comparison to post-administration canine urine specimens. Drug Testing and Analysis, 2: 589–598.