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

Substance: 4-Fluorotropacocaine

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 analogues of coca alkaloids are not captured under item 2 of Schedule I to the CDSA.

Prepared by: ___________________________  Date: __________
Evelyn C Soo

Verified by: ___________________________  Date: __________
Mark Kozlowski

Approved by: ___________________________  Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: "third party information removed as per agreement with applicant"
2

Drug Status Report

Drug: 4-Fluorotropacocaine

Drug Name Status: 4-Fluorotropacocaine is the common name.

Chemical Name: 3beta-(4-Fluorobenzoyloxy)tropane

Other Names: 3beta-(p-Fluorobenzoyloxy)tropane 8-Methyl-8-azabicyclo[3.2.1]oct-3-yl 4-fluorobenzoic acid ester; 3-pseudotropyl-4-fluorobenzoate; pFBT; 3beta-FBT

Chemical structure:

\[
\text{\(\text{C}_{15}\text{H}_{18}\text{FNO}_{2}\)}
\]

Molecular Formula: C\text{\(_{15}\text{H}_{18}\text{FNO}_{2}\)}

Pharmacological class / Application: Lysergic acid metabolite

CAS-RN: 172883-97-5

International status:

US: 4-Fluorotropacocaine is not listed specifically in 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: 4-Fluorotropacocaine is not listed specifically in the Schedules to the CDSA. The substance is the fluorinated form of tropacocaine, a minor naturally-occurring alkaloid found in coca\(^1\) which is currently listed as item 2 “Coca (Erythroxylon), its preparations, derivatives, alkaloids and salts including” in Schedule I to the CDSA. 4-Fluorotropacocaine has also been reported to be an impurity in illicit samples of cocaine\(^2\) and one of the two ingredients in a new

---

\(^1\) Lazarus, JA et al. (1933) Tropacocaine hydrochloride in spinal anaesthesia, Ann. Surg: 757-765

designer drug “Whack”, the other ingredient being desoxypipradrol. While 4-fluorotropacocaine is of significant structural similarity to tropacocaine, there is currently no provision for the inclusion of analogues under item 2 of Schedule I to the CDSA. The synthesis of 4-fluorotropacocaine has recently been reported to use pseudotropine as a starting material, and pseudotropine is not a naturally-occurring alkaloid in coca. Accordingly, the substance cannot be included under item 2 of Schedule I to the CDSA.

**Recommendation:** 4-Fluorotropacocaine is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** May 8th, 2012.

---

4 Kavanagh, P et al. (2012) The syntheses and characterisation of 3beta-(4-fluorobenzoyloxy)tropane (fluorotropacocaine) and its 3a isomer, Drug Testing and Anal. 4:33-38