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

Substance: TBSCT-FP

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 is not synthesized directly from cocaine and therefore is not included under item 2 of Schedule I to the CDSA.

Prepared by: _______________________________ Date: Jan 16th 2012
Vincent Marleau

Verified by: _______________________________ Date: _________
Mark Kozlowski

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

*This status was requested by:*  Tanya Arcand, OCS
Drug Status Report

**Drug:** TBSCT-FP

**Drug Name Status:** TBSCT-FP is the common name.

**Chemical Name:** 8-Azabicyclo[3,2,1]octane-2-carboxylic acid, 8-(3-fluoropropyl)-3-[4-(tributylstannyl)phenyl]-, methyl ester, [1R,2S,3S,5S]-

**Other names:** 8-Azabicyclo[3,2,1]octane-2-carboxylic acid, 3[(4-tributylstannyl)phenyl]-8-[3-(4-fluoropropyl)-, methyl ester, [1R-(exo,exo)]-; N-2-fluoropropyl-3beta-[4-tributylstannyl]phenyl]nortropane-2beta-carboxylic acid methyl ester; TBS-CT-FP; (1R,2S,3S,4S)-7-(3-fluoropropyl)-3-(4-(tributylstannyl)phenyl)-7-azabicyclo[2.2.1]heptane-2-carboxylic acid.

**Chemical structure:**

![Chemical structure](Nor-beta-CIT)

**Molecular Formula:** C_{30}H_{30}FNO_{2}Sn

**Pharmacological class / Application:** Imaging agent

**CAS-RN:** 479642-48-3

**International status:**

US: TBSCT-FP is not listed in 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: TBSCT-FP is not listed in the schedules to the CDSA. The substance is an imaging agent used in positron emission tomography (PET) studies for neuroimaging and is
reportedly synthesised from nor-beta-CIT\textsuperscript{1}. The status of nor-beta-CIT was previously reviewed and considered captured under item 2 of Schedule I to the CDSA on the basis that it is synthesized directly from cocaine. However, as TBSCT-FP is synthesized from a 2-step reaction from nor-beta-CIT, it is not a direct derivative of cocaine. Accordingly, TBSCT-FP cannot be included under item 2 “Coca (Ertyhroxylon), its preparations, derivatives, alkaloids and salts, including:” of Schedule I to the CDSA.

**Recommendation:** TBSCT-FP is not included under item 2 of Schedule I to the CDSA and is not a controlled substance.

**Date:** January 16th, 2012