Health Canada
Santé Canada

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

Substance: RI-111

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 an analogue of cocaine but cannot be included 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"

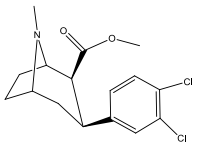
Drug Status Report

Drug: RI-111

Drug Name Status: RI-111 is the common name.

Chemical Name: 3beta-(3',4'-Dichlorophenyl)tropane2beta-carboxylic acid methyl ester

Chemical structure:



Molecular Formula: $C_{16}H_{19}Cl_2NO_2$

Pharmacological class / Application: Cocaine analogue

International status:

US: RI-111 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: RI-111 is not currently listed in the CDSA. The substance is an analogue of cocaine and has been reported in the scientific literature to display potent binding affinities to the dopamine (DA) transporter as well as increased affinity for the serotonin (5-HT) receptors[1]. Cocaine (benzoylmethylecgonine) is currently listed as sub-item 2(2) in Schedule I to the CDSA under the heading "Coca (Erythroxylon), its preparations, derivatives, alkaloids and salts including". Given that RI-111 is not synthesized from cocaine and the analogues of cocaine are not captured under the item heading, RI-111 cannot be included under item 2 of Schedule I to the CDSA. It is noteworthy that a structurally similar substance, dichloropane, was previously reviewed and also not included in the schedules to the CDSA.

Recommendation: RI-111 is not included in the schedules to the CDSA and is not a controlled substance.

Date: March 9th, 2012.

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[1] Carroll, FI. et al. (1995) Cocaine and 3β-(4'-Substituted phenyl)tropane-2 β -carboxylic acid ester and amide analogues. New high-affinity and selective compounds for the dopamine transporter. J. Med. Chem. **38**:379-388.