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

Substance: Ruboxisaturin

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 not structurally similar to any of those listed in the Schedules 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: Marie-Anne Dube, VDD, Health Canada
Drug Status Report

**Drug:** Ruboxisaturin

**Drug Name Status:** Ruboxisaturin is the proper (INN) name.

**Chemical Name:** (9S)-9-((Dimethylamino)methyl)-6,7,10,11-tetrahydro-9H,19H-5,21:12,17-dimethenodibenzo(e,k)pyrrolo(3,4-h)(1,4,13)oxadiazacyclohexadecene-18,20-dione

**Other Names:** 13-((Dimethylamino)methyl)-10,11,14,15-tetrahydro-4,9:16,21-dimetheno-1H,13H-dibenzo(e,k)pyrrolo(3,4-h)(1,4,13)oxadiazacyclohexadecene-1,3(2H)-dione; Ruboxisaturin mesylate; Ruboxisaturin mesilate; Ruboxisaturin mesylate monohydrate

**Chemical structure:**

![Chemical structure of Ruboxisaturin](image)

**Molecular Formula:** $C_{28}H_{28}N_4O_3$

**Pharmacological class / Application:** Protein kinase C beta inhibitor

**CAS-RN:** 169939-94-0 (Mesylate -192050-59-2)

**International status:**

US: Ruboxisaturin is not listed 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: Ruboxisaturin is not listed in the schedules to the CDSA. The substance has been reported in the scientific literature to inhibit protein kinase C beta isoforms and useful in the treatment of advanced glucosylated endproducts (AGE) induced nephrotoxicity in diabetes. The substance is not structurally similar to any of those listed in the CDSA.
**Recommendation:** Ruboxisaturin is not included in the Schedules to the CDSA and is not a controlled substance.

**Date:** September 11th, 2012.