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

Substance: 4-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2,6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl) morpholinium bromide

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 structurally similar to any of the substances listed in the CDSA.

Prepared by: ________________________________ Date: ________________

Vincent Marleau

Verified by: ________________________________ Date: ________________

Mark Kozlowski

Approved by: ________________________________ Date: ________________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Bruno Lafontaine, OCS
Drug Status Report

**Drug:** 4-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl) morpholinium bromide

**Drug Name Status:** 4-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl) morpholinium bromide is the common name.

**Chemical Name:** 4-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl) morpholinium bromide

**Chemical structure:**

![Chemical Structure Image]

**Molecular Formula:** C_{26}H_{39}Br_{2}NO_{4}  
**CAS-RN:** 1235355-01-7

**Pharmacological class / Application:** Pharmaceutical-related substance

**International status:**

US: 4-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl) morpholinium bromide 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-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl) morpholinium bromide is not listed in the Schedules to the CDSA. The substance is a related impurity of pinaverium bromide, a drug used for the treatment of gastrointestinal disorders such as irritable bowel syndrome\(^1\), and is not structurally similar to any of the substances included in the Schedules to the CDSA.

**Recommendation:** 4-(2-bromo-4,5-dimethoxybenzyl)-4-(2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethoxy)ethyl) morpholinium bromide is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** October 31st, 2012.

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