Health Canada Santé Canada

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

Substance: S-(+)-Coreximine

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 isomer of coreximine, an alkaloid found in Opium Poppy (*Papaver somniferum*), and included under item 1 of Schedule I to the CDSA.

Prepared by: _____ Date: April 18th 2011
Evelyn Soo

Verified by: _____ Date: _____
Kim Barber

Approved by: _____ Date: _____
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

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

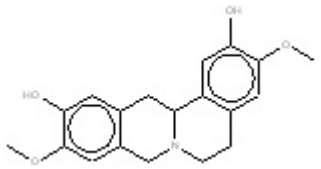
Drug Status Report

Drug: S-(+)-Coreximine

Drug Name Status: S-(+)-Coreximine is the common (INN) name.

Chemical Name:
(S)-5,8,13,13a-tetrahydro-3,10-dimethoxy-6H-Dibenzo(a,g)quinolizine-2,11-diol

Chemical structure:



Molecular Formula: $C_{19}H_{21}NO_4$

Pharmacological class / Application: Opium alkaloid

CAS-RN: 483-45-4

International status:

US: S-(+)-Coreximine is not listed in the 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: S-(+)-Coreximine is not listed in the schedules to the CDSA. The substance is the (+)-isomer of coreximine, a naturally-occurring alkaloid found in Opium Poppy[1]. "Opium Poppy (Papaver somniferum), its preparations, derivatives, alkaloids and salts including" are currently listed as item 1 in Schedule I to the CDSA. As an alkaloid of opium poppy, the substance is must be included under item 1 of Schedule I to the CDSA.

Recommendation: S-(+)-Coreximine is included under item 1 of Schedule I to the CDSA is a controlled substance.

Date: 18 April 2011

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[1]Brochmann-Hanssen, E. et al. (1971) Opium alkaloids IX: Detection of coreximine in Papaver somniferum L. based on its biosynthesis from reticuline, J. Pharm. Sci. **60**:873-878.