Health Canada
Santé Canada

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

Substance: Nordihydrocodeine-6-glucuronide

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled	X
Not Controlled	☐

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

- The substance is a metabolite of nordihydrocodeine and must be included under item 1 of Schedule I to the CDSA.

Prepared by: _____ Date: _____
Zack Li

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

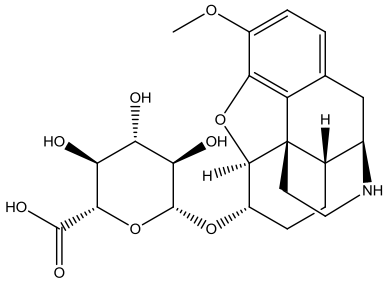
Drug: Nordihydrocodeine-6-glucuronide

Drug Name Status: Nordihydrocodeine-6-glucuronide is the common name.

Chemical Name: beta-D-Glucopyranosiduronic acid, (5alpha,6alpha)-4,5-Epoxy-3-methoxymorphinan-6-ol

Other Names: Nordihydrocodeine**,** beta-D-glucopyranosiduronic acid deriv

Chemical structure:



Molecular Formula: $C_{23}H_{29}NO_9$ **CAS-RN:** 157287-30-4

Pharmacological class / Application: Pharmaceutical-related substance

International status:

US: Nordihydrocodeine-6-glucuronide 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: Nordihydrocodeine-6-glucuronide is not listed specifically in the CDSA. The substance has been reported to be a metabolite of dihydrocodeine[1], which is currently listed as sub-item 1(11) "Dihydrocodeine (4,5-epoxy-3-methoxy-17-methylmorphinan-6-ol)" in Schedule I to the CDSA under the heading "Opium Poppy, its preparations, derivatives, alkaloids and salts". As a derivative of dihydrocodeine, nordihydrocodeine-6-glucuronide must be included under item 1 of Schedule I to the CDSA.

Recommendation: Dihydrocodeine-6-glucuronide is included in item 1 of Schedule I to the CDSA and is a controlled substance.

Date: May 18th, 2012.

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[1] Leppert, W. (2011) CYP2D6 in the metabolism of opioids for mild to moderate pain, Pharmacol. **87**:274-285.