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

Substance: 5-Hydroxy-2-nitrobenzaldehyde

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 listed in the Schedules to the CDSA and is not similar to any of the substances included in 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: Judy Judge, RAPB
Drug Status Report

**Drug:** 5-Hydroxy-2-nitrobenzaldehyde

**Drug Name Status:** 5-Hydroxy-2-nitrobenzaldehyde is the common name.

**Chemical Name:** 5-hydroxy-2-nitrobenzaldehyde

**Other Names:** 3-formyl-4-nitrophenol; BRN 191-196

**Chemical structure:**

![Chemical structure of 5-Hydroxy-2-nitrobenzaldehyde]

**Molecular Formula:** C₇H₅NO₄

**CAS RN:** 42454-06-8

**Pharmacological class / Application:** Fine chemical

**International status:**

US: 5-Hydroxy-2-nitrobenzaldehyde is not currently listed on the schedules to the US Controlled Substances Act and is not mentioned 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: 5-Hydroxy-2-nitrobenzaldehyde is a nitroaromatic compound used in organic synthesis reactions, for example the synthesis of beta-turn peptidomimetic library scaffolds\textsuperscript{1}, chemical probes\textsuperscript{2} and protein kinase inhibitors\textsuperscript{3}. The substance is not listed in the CDSA and is not structurally similar to any of the substances included in the Schedules to the CDSA. The status of a structurally similar compound, 2-nitrobenzaldehyde was previously reviewed and was also found not to be controlled under the CDSA.

Recommendation: 5-hydroxy-2-nitrobenzaldehyde is not included in the schedules to the CDSA and is not a controlled substance.

\textbf{Date:} July 8, 2011

\textsuperscript{1} Im, I., et al (2004). Solid-phase synthesis of tetrahydro-1,4-benzodiazepine-2-one derivatives as a beta-turn peptidomimetic library. J Comb Chem 6:207-213
