



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

Substance: 1-(1-(2-thienyl)cyclohexyl)pyrrolidine

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 a 2-thienyl analogue of phencyclidine and therefore included under item 14 of Schedule I to the CDSA.

Prepared by: _____ Date: Dec 4th 2010
Evelyn Soo

Verified by: _____ Date: _____
Marianne Tang

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

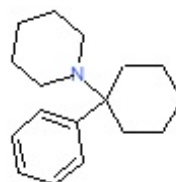
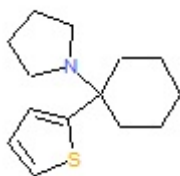
Drug: 1-(1-(2-thienyl)cyclohexyl)pyrrolidine

Drug Name Status: 1-(1-(2-thienyl)cyclohexyl)pyrrolidine is the common name.

Chemical Name: 1-(1-(2-thienyl)cyclohexyl)pyrrolidine

Other Names: TCPy

Chemical structure:



Phencyclidine

Molecular Formula: C₁₄H₂₁NS

Pharmacological class / Application: Hallucinogen

CAS-RN: 22912-13-6 (22912-14-7 for HCl)

International status:

US: 1-(1-(2-thienyl)cyclohexyl)pyrrolidine is controlled in schedule I to the US *Controlled Substances Act*.

United Nations: The substance is not listed specifically on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 1-(1-(2-thienyl)cyclohexyl)pyrrolidine is not listed specifically in the CDSA. However, the substance is a 2-thienyl analogue of phencyclidine and it has been well-established in the scientific literature that 1-(1-(2-thienyl)cyclohexyl)pyrrolidine is a potent ligand of the phencyclidine (PCP) receptor and causes ataxia^{1,2}. Phencyclidine is currently listed as item 14 in

¹Vaupel, DB. *et al.* (1984) Phencyclidine analogs and precursors: rotarod and lethal dose studies in the mouse, *J. Pharmacol. Exp. Ther.* **230**:20-27.

²Zorbas, M. *et al.* (1989) The pharmacokinetics of [3H]1-(1-(2-thienyl)cyclohexyl)piperidine (TC) in Sprague-Dawley rats, *Drug Met. Dis.* **17**:641-645.

Schedule I to the CDSA under the heading “Phencyclidine (1-(1-phenylcyclohexyl)piperidine), its salts, derivative and analogues and salts of derivatives and analogues, including:”. As an analogue of phencyclidine, 1-(1-(2-thienyl)cyclohexyl)pyrrolidine must therefore be included under item 14 of Schedule I to the CDSA. The salts of 1-(1-(2-thienyl)cyclohexyl)pyrrolidine would also have the same status.

Recommendation: 1-(1-(2-thienyl)cyclohexyl)pyrrolidine is included under item 14 of Schedule I to the CDSA and is a controlled substance.

Date: 4 December 2010