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

Substance: 1-Phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt

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 contains the core structure of the fentanyls and is included under item 16 of Schedule I to the CDSA.

Prepared by: ____________________________ Date: Aug 23, 2011
Evelyn Soo

Verified by: ____________________________ Date: __________
Mark Kozlowski

Approved by: ____________________________ Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Ian Findlay, Jacqueline Oddi, Inspectorate
Drug Status Report

**Drug**: 1-Phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt

**Drug Name Status**: 1-Phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt is the common name.

**Chemical Name**: 1-Phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt

**Chemical structure**:  

![Chemical structure](image)

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

**International status**:

US: 1-Phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt is not listed on the schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website. However, it may be considered controlled under Schedule II to the CSA under the analogue provision of the Act.

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: 1-Phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt is not listed specifically in the CDSA. The substance is reported to be an intermediate in the synthesis of $^{11}$C-carfentanil, which is currently listed as sub-item 16(3) in Schedule I to the CDSA under the heading “Fentanyl, their salts, derivatives, and analogues and salts of derivatives and analogues, including”. While 1-phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt is not a metabolite of carfentanil, it contains the core structure of the fentanyl family of compounds. In addition, it could also be considered an analogue of carfentanil which for the purpose of forming status decisions is a substance that displays substantial structural similarity to one included in the CDSA. Accordingly, 1-phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt must be included under sub-item 16(3) of Schedule I to the CDSA and considered a controlled substance.
Recommendation: 1-Phenethyl-4-(N-phenylpropionamido)piperidine-4-carboxylate, sodium salt is included in sub-item 16(3) of Schedule I to the CDSA and is a controlled substance.

Date: August 23, 2011