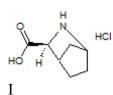
## Drug Status Report

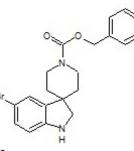
**Drug:** WXPT Series substances

A client requested the status of the following substances.

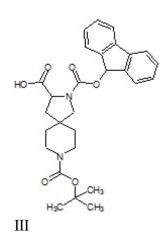
Chemical Name: I - (1R,3S,4R)-2-Azabicyclo[2.2.1]heptane-3-carboxylic acid hydrochloride (WXPT-BCAA-001) II - Benzyl 5-bromo-1,2-dihydrospiro(indole-2,4'-piperidine)-1'-carboxylate (WXPT-SIZ-014) III - 2,8-Diaza-spiro[4.5]decane-2,3,8-tricarboxylic acid 8-t-butyl ester 2-(9H-flouren-9ylmethyl) ester WXPT-FBA-0011 IV - (S)-2-Azabicylo[2.2.2]octane-2,3-dicarboxylic acid 2-t-butyl ester WXPT-BC-034

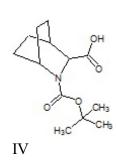
## **Chemical structure:**





II





 $\begin{array}{l} \textbf{Molecular Formula: } I - C_{7}H_{12}ClN_{2}O_{2} \\ II - C_{20}H_{21}BrN_{2}O_{2} \\ III - C_{28}H_{32}N_{2}O_{6} \\ IV - C_{13}H_{21}NO_{4} \end{array}$ 

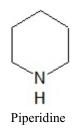
## Pharmacological class / Application: fine chemical

## International status:

US: The substances are not currently listed on the US Controlled Substances Act and are not mentioned on the DEA website.

United Nations: The substances are 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: These substances are piperidines in so far as their molecular structure contains a piperidine ring (below). It was the name piperidine that triggered a request from CBSA to determine the status of the substances under the CDSA.



Item 13 of Part I of Schedule IV to the CDSA is, "Piperidine and its salts." Substances I to IV are not salts of piperidine.

Many substances listed on the schedules to the CDSA contain a piperidine moiety. Item 3 of Schedule I, the phenylpiperidines, is a family of substances which is characterized by a phenyl or substituted phenyl group attached to the 4 position of a further substituted piperidine ring. None of substances I to IV can be considered a phenylpiperidine.

The phenylcyclohexylpiperidine (PCP) related substances often also contain a piperidine ring as an essential structural element. None of substances I to IV is a PCP related substance.

Similarly, the fentanyls contain a piperidine as an essential element. However, none of substances I to IV contains the other essential components of the fentanyl family.

Recommendation: Substances (I) through (IV) are not included in the schedules to the CDSA and are not controlled substances.

September 16, 2008