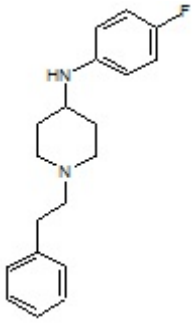
Drug Status Report

Drug: p-Flourofentanyl synthetic intermediate

Chemical Name: 4-(4-Flourophenylamino)-N-(2-phenylethyl)piperidine

Chemical structure:



Molecular Formula: $C_{19}H_{23}FN_2$

Pharmacological class / Application: fentanyl related substance

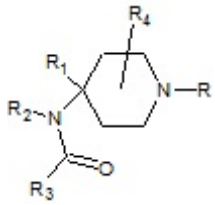
International status:

US: The substance is not currently listed on the schedules to the US Controlled Substances Act.

United Nations: The substance is 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: Item 16 of Schedule I is “Fentanyls, their salts, derivatives and analogues and salts of derivatives and analogues.” 4-(4-Flourophenylamino)-N-(2-phenylethyl)piperidine is structurally related to the fentanyls and therefore might be considered to be a member of the group of fentanyls.

A review of the current family of fentanyls indicates that all members have one common root structure that is shown below. In order to consider a substance a member of the fentanyl family of drugs and hence included in this item of Schedule I its structure must contain the elements of this root structure.



Fentanyl root structure

where
R= ethyl group substituted variously at the 1 and 2 position

R_1= hydrogen, methoxymethyl or carboxylate alkyl ester

R_2= phenyl or substituted phenyl

R_3= alkyl

R_4= hydrogen or alkyl

The structure of 4-(4-flourophenylamino)-N-(2-phenylethyl)piperidine does not comply with the requirements for R_3 as there is no amide.

Recommendation: 4-(4-Flourophenylamino)-N-(2-phenylethyl)piperidine is not included in Item 16 of Schedule I and is not a controlled substance.

November 12, 2009