

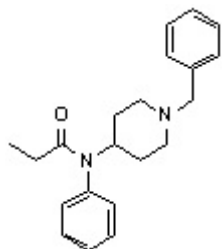
Drug Status Report

Drug: Benzylfentanyl

Drug Name Status: Benzylfentanyl is the proper name (INN).

Chemical Name: N-(1-benzylpiperidin-4-yl)-N-phenylpropionamide

Chemical structure:



Molecular Formula: C₂₁H₂₆N₂O

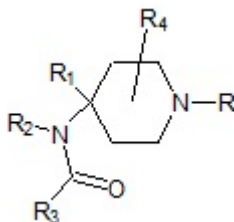
Pharmacological class / Application: Precursor to fentanyl

International status:

US: Benzylfentanyl was added to Schedule I of the CSA under the emergency scheduling provision but the decision was reversed on November 29, 1986 on the basis that the substance was determined to be essentially inactive and had no evidence of abuse potential¹.

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: Benzylfentanyl is not currently listed in the Schedules to the CDSA. A review of the current family of fentanyls revealed that substances included under item 16 of Schedule I to the CDSA all contain the following root structure,



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

R₁=hydrogen, methoxymethyl or carboxylate alkyl ester

R₂=phenyl or substituted phenyl

R₃=alkyl

R₄=hydrogen or alkyl

and that pharmacological activities of the substances was not considered in the review process.

Given that the R-group of benzylfentanyl is not a substituted ethyl group, the substance is not

¹<http://www.reginfo.gov/public/do/eAgendaViewRule?pubId=201004&RIN=1117-AB26>

considered to contain the essential structural elements of the fentanyls and therefore is not included under the heading “Fentanyls, their salts, derivatives, and analogues and salts of derivatives and analogues, including” of item 16 of Schedule I to the CDSA.

Recommendation: Benzylfentanyl is not included under item 16 of Schedule I to the CDSA and is a not controlled substance.

June 20th 2010