

## Drug Status Report

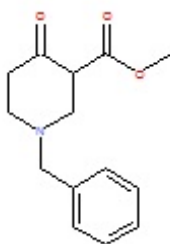
**Drug:** 1-Benzyl-3-(methoxycarbonyl)-4-piperidone

**Drug Name Status:** 1-Benzyl-3-(methoxycarbonyl)-4-piperidone is the common name.

**Chemical Name:** 4-oxo-1-(phenylmethyl)-3-piperidinecarboxylic acid methyl ester

**Other Names:** Methyl-1-benzyl-4-oxo-3-piperidinecarboxylate; N-benzyl-3-methoxycarbonyl-4-piperidone; N-benzyl-4-oxonipecotic acid methyl ester; nipecotic acid.

**Chemical structure:**



**Molecular Formula:** C<sub>14</sub>H<sub>17</sub>NO<sub>3</sub>

**CAS-RN:** 57611-47-9

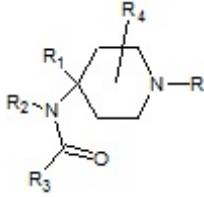
**Pharmacological class / Application:** Pharmaceutical-related substance

**International status:**

US: 1-Benzyl-3-(methoxycarbonyl)-4-piperidone is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website.

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: 1-Benzyl-3-(methoxycarbonyl)-4-piperidone is a starting material used in the synthesis of 3-methylthiofentanyl. The substance is not currently listed in the CDSA and while it does display some structural similarities to the fentanyls, 1-Benzyl-3-(methoxycarbonyl)-4-piperidone does not contain all of the core structural elements of the fentanyls shown below:



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

R<sub>1</sub>=hydrogen, methoxymethyl or carboxylate alkyl ester

R<sub>2</sub>=phenyl or substituted phenyl

R<sub>3</sub>=alkyl

R<sub>4</sub>=hydrogen or alkyl

Accordingly, 1-Benzyl-3-(methoxycarbonyl)-4-piperidone cannot be included under item 16 of Schedule I to the CDSA.

Recommendation: 1-Benzyl-3-(methoxycarbonyl)-4-piperidone is not included in the Schedules to the CDSA and is not a controlled substance.

July 14<sup>th</sup> 2010