

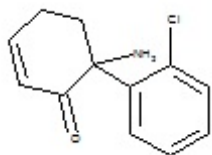
## Drug Status Report

**Drug:** **I** - 5,6-Dehydronorketamine  
**II** - Norketamine

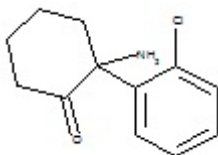
**Drug Name Status:** **I** - 5,6-Dehydronorketamine  
**II** - Norketamine are common names.

**Chemical Name:** **I** - 6-amino-6-(2-chlorophenyl)-2-cyclohexen-1-one  
**II** - 2-amino-2-(o-chlorophenyl)cyclohexanone

**Chemical structure:**



**I**



**II**

**Molecular Formula:** **I** - C<sub>12</sub>H<sub>12</sub>ClNO; **II** - C<sub>12</sub>H<sub>14</sub>ClNO

**CAS Number:** **I** - 57683-62-2; **II** - 35211-10-0

**Pharmacological class / Application:** Metabolites of ketamine

**International status:**

US: 5,6-Dehydronorketamine and norketamine 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: 5,6-Dehydronorketamine and norketamine are not listed specifically in the CDSA. However, it is well established in the scientific literature that 5,6-dehydronorketamine and norketamine are the two major metabolites of ketamine, and contribute to the pharmacological properties of the parent drug<sup>1</sup>.

Ketamine is currently listed under item 1(sub-item 14) of Schedule I to the CDSA, under the heading "Phencyclidine (1-(1-phenylcyclohexyl)piperidine), its salts, derivatives and analogues

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<sup>1</sup>Bolze, S. and Bouliou R. (1998) HPLC determination of ketamine, norketamine and dehydroketamine in plasma with a high-purity reversed-phase sorbent, Clin. Chem. **44**:560-564.

and salts of derivatives and analogues, including:”. Since 5,6-dehydronorketamine and norketamine are derived from ketamine, they must be included under item 1(14) of Schedule I to the CDSA.

Recommendation: 5,6-dehydronorketamine and norketamine are included under item 1(14) of Schedule I to the CDSA and are controlled substances.

July 14<sup>th</sup> 2010