

## Drug Status Report

### Drug: Pregnanes

A client requested the status of the following substances.

- I- Isopregnanolone (5 $\alpha$ -pregnan-3 $\beta$ -ol-20-one; 5 $\alpha$ ,3 $\beta$ -tetrahydroprogesterone)
- II- Epipregnanolone (5 $\beta$ -pregnan-3 $\beta$ -ol-20-one; 5 $\beta$ ,3 $\beta$ -tetrahydroprogesterone)
- III- Allopregnanolone (5 $\alpha$ -pregnan-3 $\alpha$ -ol-20-one; 5 $\alpha$ ,3 $\alpha$ -tetrahydroprogesterone)
- IV- 5 $\alpha$ , 3 $\alpha$ -tetrahydrodeoxycorticosterone (5 $\alpha$ -pregnan-3 $\alpha$ ,21-diol-20-one)

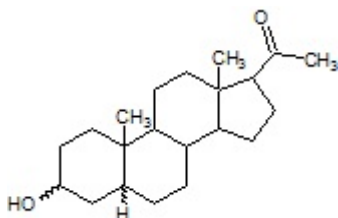
**Drug Name Status:** The following are common names.

- I- Isopregnanolone (5 $\alpha$ -pregnan-3 $\beta$ -ol-20-one; 5 $\alpha$ ,3 $\beta$ -tetrahydroprogesterone)
- II- Epipregnanolone (5 $\beta$ -pregnan-3 $\beta$ -ol-20-one; 5 $\beta$ ,3 $\beta$ -tetrahydroprogesterone)
- III- Allopregnanolone (5 $\alpha$ -pregnan-3 $\alpha$ -ol-20-one; 5 $\alpha$ ,3 $\alpha$ -tetrahydroprogesterone)
- IV- 5 $\alpha$ , 3 $\alpha$ -tetrahydrodeoxycorticosterone (5 $\alpha$ -pregnan-3 $\alpha$ ,21-diol-20-one)

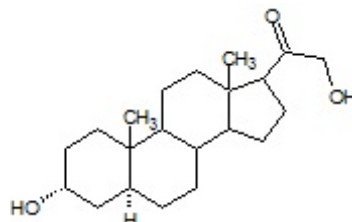
### Chemical Name:

- I- (3 $\beta$ ,5 $\alpha$ )-3-hydroxy-pregnan-20-one
- II- (3 $\beta$ ,5 $\beta$ )-3-hydroxy-pregnan-20-one
- III- (3 $\alpha$ ,5 $\alpha$ )-3-hydroxy-pregnan-20-one
- IV- 3 $\alpha$ ,21-Dihydroxy-5 $\alpha$ -pregnan-20-one

### Chemical structure:



3-hydroxy-pregnan-20-one  
I, II, and III



IV

**Molecular Formula:** I, II, and III - C<sub>21</sub>H<sub>34</sub>O<sub>2</sub>

IV- C<sub>21</sub>H<sub>34</sub>O<sub>3</sub>

**Pharmacological class / Application:** neurosteroids

### International status:

US: The substances are currently listed on the schedules to 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: Substances I to IV are not structurally similar to the anabolic steroids listed in item 23 of Schedule IV. There are no reports that I to IV have anabolic activity.

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

January 21, 2008