

Drug Status Report

Drug: Pregnanes

A client requested the status of the following substances.

- I- Isopregnanolone (5 α -pregnan-3 β -ol-20-one; 5 α ,3 β -tetrahydroprogesterone)
- II- Epipregnanolone (5 β -pregnan-3 β -ol-20-one; 5 β ,3 β -tetrahydroprogesterone)
- III- Allopregnanolone (5 α -pregnan-3 α -ol-20-one; 5 α ,3 α -tetrahydroprogesterone)
- IV- 5 α , 3 α -tetrahydrodeoxycorticosterone (5 α -pregnan-3 α ,21-diol-20-one)

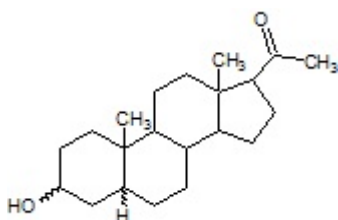
Drug Name Status: The following are common names.

- I- Isopregnanolone (5 α -pregnan-3 β -ol-20-one; 5 α ,3 β -tetrahydroprogesterone)
- II- Epipregnanolone (5 β -pregnan-3 β -ol-20-one; 5 β ,3 β -tetrahydroprogesterone)
- III- Allopregnanolone (5 α -pregnan-3 α -ol-20-one; 5 α ,3 α -tetrahydroprogesterone)
- IV- 5 α , 3 α -tetrahydrodeoxycorticosterone (5 α -pregnan-3 α ,21-diol-20-one)

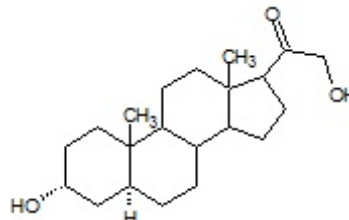
Chemical Name:

- I- (3 β ,5 α)-3-hydroxy-pregnan-20-one
- II- (3 β ,5 β)-3-hydroxy-pregnan-20-one
- III- (3 α ,5 α)-3-hydroxy-pregnan-20-one
- IV- 3 α ,21-Dihydroxy-5 α -pregnan-20-one

Chemical structure:



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



IV

Molecular Formula: I, II, and III - C₂₁H₃₄O₂

IV- C₂₁H₃₄O₃

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