

Drug Status Report

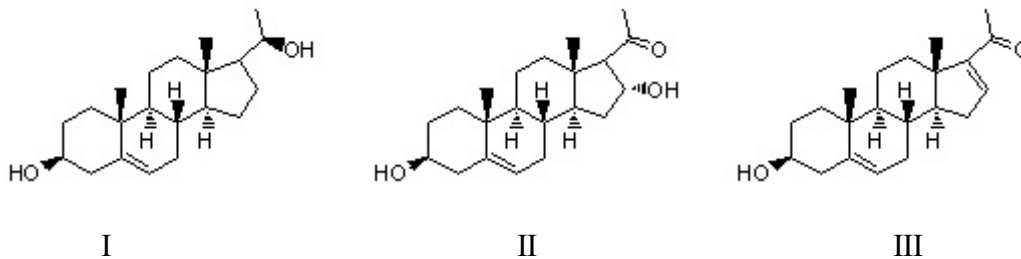
Drug: I - 20 β -hydroxypregnenolone
II - 16 α -hydroxypregnenolone
III- 16-dehydropregnenolone

Drug Name Status: I - 20 β -hydroxypregnenolone
II - 16 α -hydroxypregnenolone
III- 16-dehydropregnenolone

Chemical Name: I - Pregn-5-en-3 β ,20 β -diol
II - 3 β -Hydroxypregn-5-en-16 α -ol-20-one
III- 3 β -Hydroxypregna-5,16-dien-20-one

Other Names: I - 5-Pregnen-3 β ,20 β -diol
II - 5-Pregnen-3 β ,16 α -diol-20-one
III - 5,16-Pregnadien-3 β ,16 α -diol-20-one; Pregna-5,16-dien-20-one, 3-hydroxy-3 β

Chemical structure:



Molecular Formula: I - C₂₁H₃₄O₂; II - C₂₁H₃₂O₃; III - C₂₁H₃₀O₂

Pharmacological class / Application: steroids

International status:

US: The substances are not listed on the schedules to the CSA 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. The drugs are not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 20 β -hydroxypregnenolone, 16 α -hydroxypregnenolone and 16-dehydropregnenolone are derivatives of pregnenolone and have not been reported in the literature to display any anabolic activity. It is noteworthy that 16-dehydropregnenolone was developed as a hypolipidaemic drug, and 20 β -hydroxypregnenolone has been identified as one of its major

metabolites¹. The substances do not fall under Item 23 “Anabolic steroids and their derivatives including:” of Schedule IV to the CDSA.

Recommendation: 20 β -hydroxypregnenolone, 16 α -hydroxypregnenolone and 16-dehydropregnenolone are not included in any of the Schedules to the CDSA and are not considered controlled substances.

March 10th 2010

¹Suryawanshi, S. et al. (2006) A sensitive and selective HPLC/ESI-MS/MS assay for the simultaneous quantification of 16-dehydroprenenolone and its major metabolites in rabbit plasma, *J. Chromatogr. B*, **830**:54-63.