

Drug Status Report

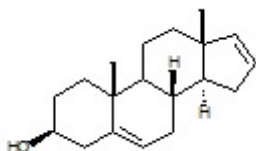
Drug: Androstadienol

Drug Name Status: Androsta-5,16-dien-3 β -ol

Chemical Name: Androsta-5,16-dien-3 β -ol

Other Names: Andien- β

Chemical structure:



Molecular Formula: C₁₉H₂₈O

Pharmacological class / Application: steroid

International status:

US: The substance is not listed on the schedules to the CSA 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. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Androstadienol is a metabolite of progesterone^{1,2} and has been implicated as a putative human pheromone³. The substance has not been reported in the literature to display any anabolic activity and is not a derivative of an anabolic steroid and therefore is not included under Item 23 “Anabolic steroids and their derivatives including” of Schedule IV to the CDSA.

Recommendation: Androstadienol is not included in the schedules to the CDSA and is not considered a controlled substance.

March 9th 2010

¹Kwan, TK. *et al.* (1985) Gas chromatographic-mass spectrometric study of metabolites of C21 and C19 steroids in neonatal porcine testicular microsomes, *Biochem. J.* 227:909-916.

²Kohara, H. and Shimizu, K. (1987) Stereospecific removal of the 16 α -hydrogen in the biosynthesis of 5,16-androstadien-3 β -ol from pregnenolone, *Biochimica et Biophysica Acta*, 921:90-95.

³Gower, DB. *et al.* (1994) Comparison of 16-androstene steroid concentrations in sterile apocrine sweat and axillary secretions: Interconversions of 16-androstenes by axillary microflora - a mechanism for axillary odour production in man? *J. Steroid Biochem.* 48:409-418.