

Drug Status Report

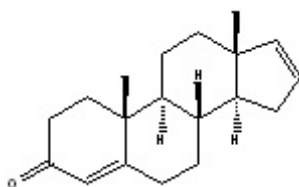
Drug: Androstadienone

Drug Name Status: Androsta-4,16-dien-3-one

Chemical Name: Androsta-4,16-dien-3-one

Other Names: d4,16-Androstadien-3-one; Androsta-4,16-dien-3-one (8Cl)(9Cl); 4,16-Androstadien-3-one

Chemical structure:



Molecular Formula: C₁₉H₂₆O

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: Androstadienone is a metabolite of progesterone¹ and has been shown to be a putative human pheromone². 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: Androstadienone 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.

²Hummer, TA. *et al.* (2009) Putative human pheromone androstadienone attunes the mind specifically to emotional information, *Hormones and Behaviour* 55:548-559.