

Drug Status Report

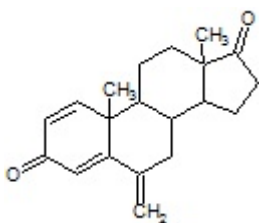
Drug: Exemestane and related substances

This report covers several structurally related substances. A client requested the status of these substances for a research project.

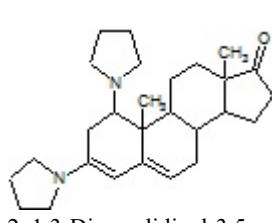
Drug Name Status: Exemestane is the proper (INN and USAN) name

Chemical Name: 6-Methyleneandrosta-1,4-diene-3,17-dione

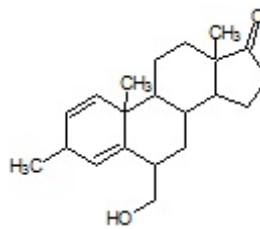
Chemical structure:



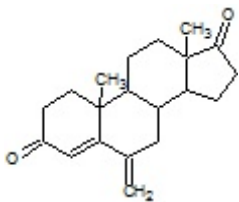
1. Exemestane



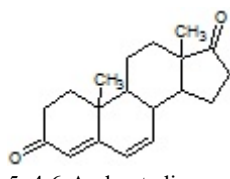
2. 1,3-Dipyrrolidinyl-3,5-androstadiene-17-one



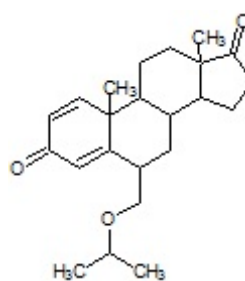
3. 6-Hydroxymethyl-1,4-androstadiene-3,17-dione



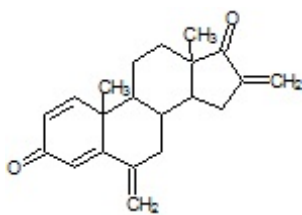
4. 6-Methylene-4-androstene-3-17-dione



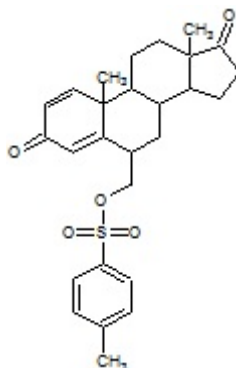
5. 4,6-Androstadiene-3,17-dione



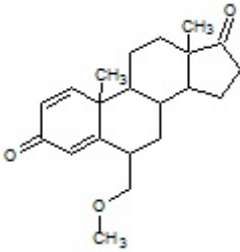
6. 6-Isopropoxymethyl-1,4-androstadiene-3,17-dione



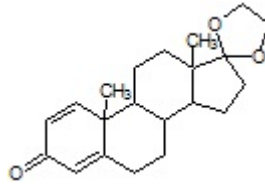
7. 6,16-Dimethylene-1,4-androstadiene-3,17-dione



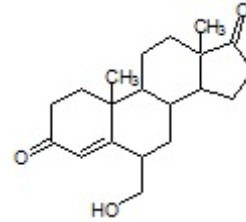
8. 6-(p-Toluene-sulfonyloxymethyl)-1,4-androstadiene-3,17-dione



9. 6-Methoxymethyl-
1,4-androstadiene-3,17-
dione



10. 1,4-Androstadiene-
3,17-dione 17-ethylene
ketal



11. 6-Hydroxymethyl-4-
androstene-3,17-dione

Molecular Formula: $C_{20}H_{24}O_2$

Pharmacological class / Application: steroid

International status:

US: The substances are not currently listed on 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: Item 23 of Schedule IV to the CDSA is "23. Anabolic steroids and their derivatives." On September 19, 2001 OCS made a decision that 1,4-androstadiene-3,17-dione was an anabolic steroid by inclusion in item 23. Substance 10 above, 1,4-androstadiene-3,17-dione 17-ethylene ketal is a derivative of this substance and therefore must also be considered to be included in item 23 of Schedule IV. None of the other substances shown above is a derivative of an anabolic steroid and none is known to have anabolic activity.

Recommendation: 1,4-androstadiene-3,17-dione 17-ethylene ketal is included in item 23 of Schedule IV and is a controlled substance. The other substances shown above are not included in the schedules to the CDSA.

June 8, 2007