

STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance:	16alpha,17beta-Dihydroxy-1	7alpha-methyl-5alpha-androstan-3-one; and
	16beta,17beta-Dihydroxy-17	alpha-methyl-5alpha-androstan-3-one
	urrent information available to appears that the above substar	
	Controlled Not Controlled	$\overset{\square}{X}$
under the scheo following reaso	9	and Substances Act (CDSA) for the
• A close	ce due to its anabolic characte	fically on the CDSA. lone, is considered a controlled eristics; as indicated by a prior status
• These two substances are 16alpha- and 16-beta-hydroxymestanolone.		
_	the close structural relations	
		nethyl- 5alpha-androstan-3-one and ethyl-5alpha-androstan-3-one and
	olone, there are no reports ind	
		methyl-5alpha-androstan-3-one and
16beta,	17beta-dihydroxy-17alpha-mo	ethyl-5alpha- androstan-3-one are
		her anabolic steroid or that the title
substan	ces have anabolic activity.	
Supporting doc	cument(s) attached: X	
Prepared by:	TIANA BRANCH	Date: <u>2005-07-12</u>
Verified by:	See email MICHAEL LEBELLE	Date: 2005-07-07
Approved by:		Date:
	DIRECTOR, OFFICE OF CONTROLLED SUBSTA	

Drug: 16alpha,17beta-Dihydroxy-17alpha-methyl-5alpha-androstan-3-one; 16beta,17beta-Dihydroxy-17alpha-methyl-5alpha-androstan-3-one

Drug Name Status:

16alpha,17beta-Dihydroxy-17alpha-methyl-5alpha-androstan-3-one and 16beta,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one are the chemical names.

Chemical Names:

16alpha,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one; 16beta,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one

Chemical structure:

The difference between

16alpha,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one and 16beta,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one is the configuration of the 16-hydroxyl. The wiggly line indicates the hydroxyl may be either alpha or beta.

Molecular Formula: C₂₀H₃₂O₃

Pharmacological class / Application: steroid

International status:

US: The drug is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website.

United Nations: The drug 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: The drug is currently not listed specifically on the CDSA. A closely related substance, mestanolone, is considered a controlled substance due to its anabolic characteristics. It is not listed specifically on Schedule IV to the CDSA but it can be found on the list of controlled substances maintained by OCS. The two substances which are the subject of this report are 16alpha- and 16-beta-hydroxymestanolone. The structure of mestanolone is shown below.

Despite the close structural relationship between 16alpha,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one and 16beta,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one and mestanolone, there are no reports indicating that 16alpha,17beta-dihydroxy-17alpha-methyl-5alpha-androstan-3-one and 16beta,17beta-dihydroxy-17alpha-methyl-5alpha- androstan-3-one are derivatives of mestanolone or any other anabolic steroid or that the title substances have anabolic activity..

Recommendation: Based on the information available 16alpha,17beta-dihydroxy-17alpha- methyl-5alpha-androstan-3-one and 16beta,17beta-dihydroxy-17alpha-methyl-5alpha- androstan-3-one are not included in the schedules to the CDSA and are not controlled substances.