



11 α -hydroxy Testosterone

Cat. No.:	OB0626WX-2997
Appearance:	Crystalline solid
Purity:	$\geq 97\%$
Identity:	Confirmed by NMR, TLC, and HPLC.
Size:	1 mg; 5 mg; 10 mg; 25 mg

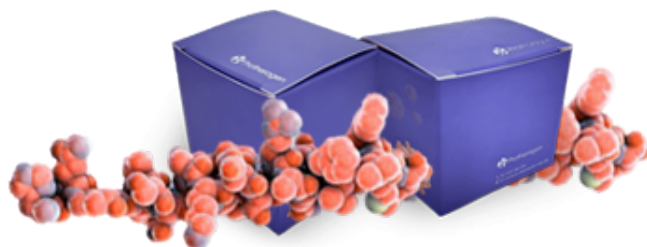
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	11 α -hydroxy Testosterone is a hydroxylated steroid isomer generated <i>via</i> the enzymatic processing of testosterone by specific cytochrome P450 monooxygenase pathways or through targeted fungal biotransformation routes. This compound serves as a precise reference standard for tracking steroid hydroxylase specificity and studying the metabolic fingerprinting of cytochrome P450 isoforms.
Synonyms	11 α ,17 β -dihydroxy-androst-4-en-3-one; 11 α -Hydroxytestosterone; 11-Hydroxytestosterone, 11 α -; 11 α -Hydroxytestosterone, (+)-; 3066-12-4
CAS No.	3066-12-4
Compound CID	11954152
Formula	C ₁₉ H ₂₈ O ₃
Formula Weight	304.4

Specification

$\lambda_{\max}$	241 nm
Solubility in Ethanol	1 mg/mL
IUPAC Name	(8S,9S,10R,11R,13S,14S,17S)-11, 17-dihydroxy-10,13-dimethyl-1,2,6,7,8,9,11,12,14,15,16,17-dodecahydrocyclopenta[a]phenanthren-3-one
InChI	InChI=1S/C19H28O3/c1-18-8-7-12(20)9-11(18)3-4-13-14-5-6-16(22)19(14,2)10-15(21)17(13)18/h9,13-17,21-22H,3-8,10H2,1-2H3/t13-,14-,15+,16-,17+,18-,19-/m0/s1
InChI Key	YQDZGFAYWGWSJK-RUOITVIXSA-N



Canonical SMILES

O[C@H]1CC[C@@]2([H])[C@]3([H])CCC([C@@](CC4)(C)[C@@]3([H])[C@H](O)C[C@@]21C)=CC4=O

Stability

1 year

Storage

Storage at 2-8°C.

Applications

11 α -hydroxy Testosterone serves as an analytical reference compound for steroid metabolism studies and characterization of hydroxylated androgen derivatives. It facilitates chromatographic analysis, structural identification, and quantitative profiling of steroid-related metabolites.