

Product Data Sheet

Product Name: 6 β -hydroxy Testosterone

Cat. No.: GC19458

Chemical Properties

Cas. No. 62-99-7

Chemical Name 6 β ,17 β -androst-4-en-3-one

SMILES C[C@]12[C@](CC[C@@H]2O)([H])[C@]3([H])C[C@@H](O)C4=CC(CC[C@]4(C)[C@@]3([H])CC1)=O

Formula C₁₉H₂₈O₃

M.Wt 304.4

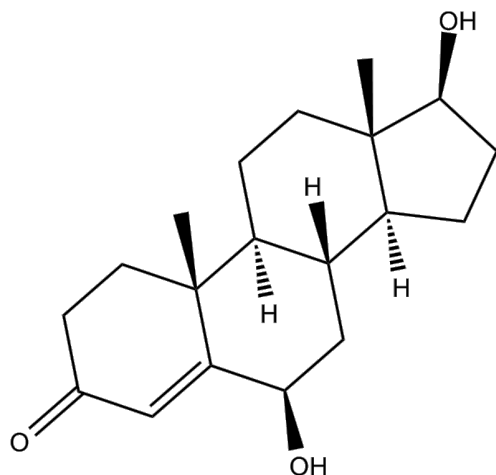
Solubility 1mg/mL in acetonitrile, or in methanol, or in ethanol

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

CYP3A4 and CYP3A5 are cytochrome P450 enzymes whose expression is induced by glucocorticoids and certain xenobiotics, including many drugs and chemical carcinogens.¹ They

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mediate the metabolism of xenobiotics as well as certain endobiotics, including steroid hormones.²

6 β -hydroxy Testosterone is a major metabolite produced from testosterone by the actions of CYP3A4 and CYP3A5, accounting for 75-80% of all metabolites formed from testosterone.^{2,3} The biological effects of 6 β -hydroxy testosterone have been poorly studied.

Reference:

1. Cooper, B.W., Cho, T.M., Thompson, P.M., et al. Phthalate induction of CYP3A4 is dependent on glucocorticoid regulation of PXR expression Toxicological Sciences 103(2), 268-277 (2008).
2. Draper, A.J., Madan, A., Smith, K., et al. Development of a non-high pressure liquid chromatography assay to determine testosterone hydroxylase (CYP3A) activity in human liver microsomes Drug Metabolism and Disposition 26(4), 299-304 (1998).
3. Capdevila, J.H., Karara, A., Waxman, D.J., et al. Cytochrome P-450 enzyme-specific control of the regio- and enantiofacial selectivity of the microsomal arachidonic acid epoxygenase The Journal of Biological Chemistry 265, 10865-10871 (1990).

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