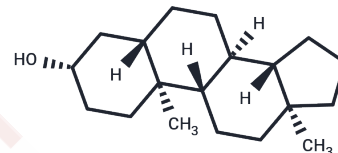


5 α -Androstan-3 β -ol

Chemical Properties

CAS No. :	1224-92-6
Formula:	C ₁₉ H ₃₂ O
Molecular Weight:	276.46
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	5 α -Androstan-3 β -ol, a steroidal androgen, demonstrates selective interaction with cellular components, showing affinity for the androgen receptor (AR) with an IC ₅₀ of 1.7 μ M and activating the pregnane X receptor (PXR) in HepG2 cells with an EC ₅₀ of 0.8 μ M. It selectively inhibits the hydroxylase activities of 16 α - and 6 β -hydroxylase over 16 β - or 7 α -hydroxylase, with IC ₅₀ values of 70 and 110 μ M, compared to >150 μ M for the latter enzymes, indicating a specificity in its enzyme inhibition profile. Additionally, administration of this compound at a dosage of 30 mg/kg results in a decrease in testis weight and sperm production in mice, highlighting its biological effects on male reproductive parameters.
Targets(IC ₅₀)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6172 mL	18.0858 mL	36.1716 mL
5 mM	0.7234 mL	3.6172 mL	7.2343 mL
10 mM	0.3617 mL	1.8086 mL	3.6172 mL
50 mM	0.0723 mL	0.3617 mL	0.7234 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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