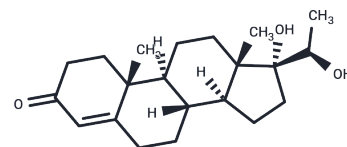


17 α ,20 β -Dihydroxy-4-pregnen-3-one

Chemical Properties

CAS No. :	1662-06-2
Formula:	C ₂₁ H ₃₂ O ₃
Molecular Weight:	332.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	17 α ,20 β -Dihydroxy-4-pregnen-3-one (17 α ,20 β -DHP) is an endogenous, maturation-inducing steroid that stimulates oocyte maturation in females of several teleost species. For example, 1 μ g/ml of 17 α ,20 β -DHP applied to Persian sturgeon oocytes has been shown to effectively induce germinal vesicle breakdown, an essential step during oocyte maturation.1 Gonadotropin-releasing hormone and the gonadotropins, follicle-stimulating hormone and luteinizing hormone, have been shown to stimulate the production of 17 α ,20 β -DHP either in vivo or in vitro.[2] 17 α ,20 β -DHP has also been reported to influence spermiation by stimulating milt production when administered at 5 mg/kg to various male teleosts.[1]
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Solubility Information

Solubility	Methanol: 1 mg/mL Acetonitrile: 1 mg/mL Ethanol: 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0077 mL	15.0385 mL	30.077 mL
5 mM	0.6015 mL	3.0077 mL	6.0154 mL
10 mM	0.3008 mL	1.5038 mL	3.0077 mL
50 mM	0.0602 mL	0.3008 mL	0.6015 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.

Reference

Milla, S., Terrien, X., Sturm, A., et al. Plasma 11-deoxycorticosterone (DOC) and mineralocorticoid receptor testicular expression during rainbow trout *Oncorhynchus mykiss* spermiation: Implication with 17 α alpha,

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