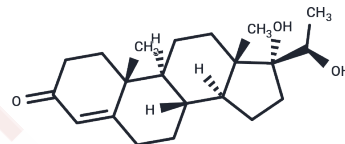


## 17 $\alpha$ ,20 $\beta$ -Dihydroxy-4-pregnen-3-one

### Chemical Properties

CAS No. :	1662-06-2
Formula:	C <sub>21</sub> H <sub>32</sub> O <sub>3</sub>
Molecular Weight:	332.48
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	17 $\alpha$ ,20 $\beta$ -Dihydroxy-4-pregnen-3-one (17 $\alpha$ ,20 $\beta$ -DHP) is an endogenous, maturation-inducing steroid that stimulates oocyte maturation in female teleost species. For instance, 1 $\mu$ g/ml of 17 $\alpha$ ,20 $\beta$ -DHP induces germinal vesicle breakdown in Persian sturgeon oocytes, a key step in maturation. Gonadotropin-releasing hormone and gonadotropins (follicle-stimulating hormone and luteinizing hormone) stimulate the production of 17 $\alpha$ ,20 $\beta$ -DHP in vivo or in vitro. 17 $\alpha$ ,20 $\beta$ -DHP also influences spermiation by stimulating milt production at 5 mg/kg in various male teleosts.
Targets(IC50)	Others,Endogenous Metabolite

### Solubility Information

Solubility	Methanol: 1 mg/mL (3.01 mM),Sonication is recommended. Acetonitrile: 1 mg/mL (3.01 mM),Sonication is recommended. Ethanol: 1 mg/mL (3.01 mM),Sonication is recommended. ( < 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.

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.

### 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 $\alpha$ , 2 $\beta$ dihydroxyprogesterone on the milt fluidity? *Reproductive Biology and Endocrinology* 6, 19 (2008).
- Planas, J.V., and Swanson, P. Maturation-associated changes in the response of the salmon testis to the steroidogenic actions of gonadotropins (GTH I and GTH II) in vitro. *Biology of Reproduction* 52(3), 697-704 (1995).

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