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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

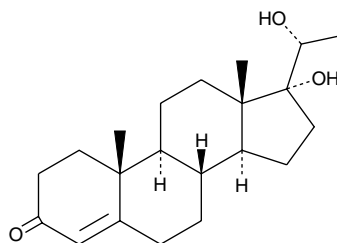
Product Information



17 α ,20 β -Dihydroxy-4-pregnen-3-one

Item No. 16146

CAS Registry No.:	1662-06-2
Formal Name:	17,20R-dihydroxy-pregn-4-en-3-one
Synonyms:	17 α ,20 β -DHP; 17 α ,20 β -dihydroxy Progesterone
MF:	C ₂₁ H ₃₂ O ₃
FW:	332.50
Purity:	≥95%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max} : 241 nm



Laboratory Procedures

For long term storage, we suggest that 17 α ,20 β -dihydroxy-4-pregnen-3-one (17 α ,20 β -DHP) be stored as supplied at -20°C. It should be stable for at least two years.

17 α ,20 β -DHP is supplied as a crystalline solid. A stock solution may be made by dissolving the 17 α ,20 β -DHP in the solvent of choice. 17 α ,20 β -DHP is soluble in organic solvents such as ethanol, methanol, and acetonitrile, which should be purged with an inert gas. The solubility of 17 α ,20 β -DHP in these solvents is approximately 1 mg/ml.

17 α ,20 β -DHP is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

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

References

1. 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 ,20 β -dihydroxyprogesterone on the milt fluidity? *Reprod. Biol. Endocrinol.* **6**, 19 (2008).
2. 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*. *Biol. Reprod.* **52**(3), 697-704 (1995).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16146

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com