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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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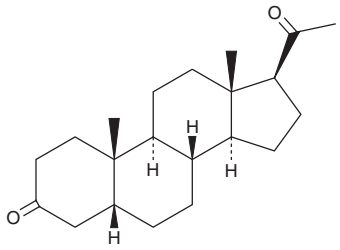
PRODUCT INFORMATION

5β-Dihydroprogesterone

Item No. 34644

CAS Registry No.:	128-23-4
Formal Name:	(5β)-pregnane-3,20-dione
Synonyms:	5β-DHP, NSC 82868, 5β-Pregnanedione
MF:	$C_{21}H_{32}O_2$
FW:	316.5
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

5β-Dihydroprogesterone (5β-DHP) is supplied as a solid. A stock solution may be made by dissolving the 5β-DHP in the solvent of choice, which should be purged with an inert gas. 5β-DHP is soluble in the organic solvent chloroform at a concentration of approximately 30 mg/ml.

Description

5β-DHP is a progesterone receptor agonist and metabolite of progesterone (Item No. 15876).[1,2] It is formed from progesterone by 5β-reductase.[2] 5β-DHP inhibits spontaneous contractions in isolated rat uterus when used at a concentration of 10 µg/ml, an effect that can be blocked by the progesterone receptor antagonist RU486 (mifepristone; Item No. 10006317) but not the $GABA_A$ receptor antagonist picrotoxin (Item No. 20771).[1] It is a negative modulator of homooligomeric ρ1 subunit-containing $GABA_A$ receptors, inhibiting GABA-induced currents in *X. laevis* oocytes expressing these receptors (IC_{50} = 5.02 µM).[3] Plasma levels of 5β-DHP decrease at the onset of spontaneous human labor.[4]

References

1. Putnam, C.D., Brann, D.W., Kolbeck, R.C., *et al.* Inhibition of uterine contractility by progesterone and progesterone metabolites: Mediation by progesterone and gamma amino butyric $acid_A$ receptor systems. *Biol. Reprod.* **45(2)**, 266-272 (1991).
2. Bumke-Vogt, C., Bähr, V., Diederich, S., *et al.* Expression of the progesterone receptor and progesterone-metabolising enzymes in the female and male human kidney. *J. Endocrinol.* **175(2)**, 349-364 (2002).
3. Morris, K.D., Moorefield, C.N., and Amin, J. Differential modulation of the γ-aminobutyric acid type C receptor by neuroactive steroids. *Mol. Pharmacol.* **56(4)**, 752-759 (1999).
4. Sheehan, P.M., Rice, G.E., Moses, E.K., *et al.* 5β-dihydroprogesterone and steroid 5β-reductase decrease in association with human parturition at term. *Mol. Hum. Reprod.* **11(7)**, 495-501 (2005).

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