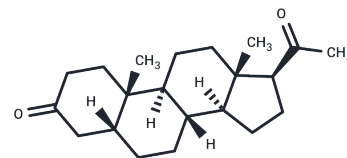


5 β -Dihydroprogesterone

Chemical Properties

CAS No. :	128-23-4
Formula:	C ₂₁ H ₃₂ O ₂
Molecular Weight:	316.485
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	5 β -Dihydroprogesterone (5 β -DHP) is a progesterone receptor agonist and metabolite of progesterone .1,2It is formed from progesterone by 5 β -reductase.25 β -DHP inhibits spontaneous contractions in isolated rat uterus when used at a concentration of 10 μ g/ml, an effect that can be blocked by the progesterone receptor antagonist RU486 but not the GABAAreceptor antagonist picrotoxin .1It is a negative modulator of homooligomeric P1 subunit-containing GABAAreceptors, inhibiting GABA-induced currents inX. laevis oocytes expressing these receptors (IC ₅₀ = 5.02 μ M).3Plasma levels of 5 β -DHP decrease at the onset of spontaneous human labor.4
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Solubility Information

Solubility	Chloroform: 30 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	3.1597 mL	15.7983 mL	31.5966 mL
5 mM	0.6319 mL	3.1597 mL	6.3193 mL
10 mM	0.316 mL	1.5798 mL	3.1597 mL
50 mM	0.0632 mL	0.316 mL	0.6319 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

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 acidA receptor systems Biol. Reprod. 45(2)266-

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