

5 α -Pregnane-3 α ,20 α -diol

Chemical Properties

CAS No. :	566-58-5
Formula:	C ₂₁ H ₃₆ O ₂
Molecular Weight:	320.51
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	5 α -Pregnane-3 α ,20 α -diol (allopregnanediol) is an endogenous neuroactive steroid metabolite derived from Progesterone metabolism. In animal studies, under specific endocrine conditions (e.g., ovariectomized estrogen-primed rats), it has been shown to modulate gonadotropin release, including stimulation of luteinizing hormone (LH) and suppression of follicle-stimulating hormone (FSH).
Targets(IC50)	GNRH Receptor

Solubility Information

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

	1mg	5mg	10mg
1 mM	3.120 mL	15.6001 mL	31.2003 mL
5 mM	0.624 mL	3.120 mL	6.2401 mL
10 mM	0.312 mL	1.560 mL	3.120 mL
50 mM	0.0624 mL	0.312 mL	0.624 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

M Zanisi, et al. Effects on gonadotropin secretion of 5-alpha-pregnane-3 alpha, 20 alpha-diol, a physiological progesterone derivative. Proc Soc Exp Biol Med. 1979 May;161(1):66-9.

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