

Product Name: Pregnanolone

Catalog No.: 3652

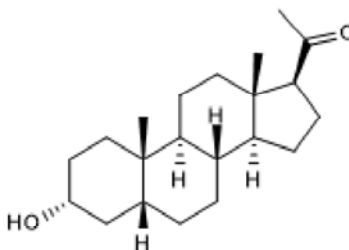
Batch No.: 6

CAS Number: 128-20-1

IUPAC Name: (3 α ,5 β)-3-Hydroxy-pregnan-20-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₄O₂
Batch Molecular Weight: 318.49
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 149 - 150°C
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +105 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.19	10.76	
Found	79.42	10.71	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

GABA_A receptor positive allosteric modulator. Neuroactive steroid.

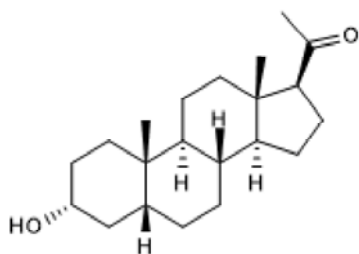
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Morris *et al* (1999) Differential modulation of the γ -aminobutyric acid type C receptor by neuroactive steroids. *Mol.Pharmacol.* **56** 752. PMID: 10496958.

Harrison *et al* (1987) Structure-activity relationships for steroid interaction with the γ -aminobutyric acid_A receptor complex. *J.Pharmacol.Exp.Ther.* **241** 346. PMID: 3033209.

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