

Product Name: THDOC

Catalog No.: 6334

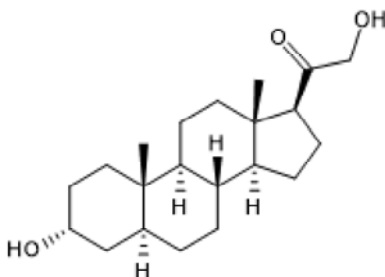
Batch No.: 1

CAS Number: 567-02-2

IUPAC Name: (3 α ,5 α)-3,21-Dihydroxypregnan-20-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₄O₃
Batch Molecular Weight: 334.49
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Dichloromethane:Methanol [95:5])
HPLC: Shows 97% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
 Optical Rotation: [α]_D = +96.9 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.41	10.25	
Found	75.27	10.29	

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

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IUPAC Name: (3 α ,5 α)-3,21-Dihydroxypregnan-20-one

Description:

Positive modulator of GABA_A receptors. Potentiates neuronal response to low concentrations of GABA at α 4 β 1 δ GABA_A receptors in vitro. Endogenous neurosteroid.

Physical and Chemical Properties:

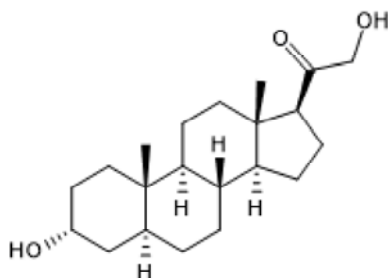
Batch Molecular Formula: C₂₁H₃₄O₃

Batch Molecular Weight: 334.49

Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:



References:

Adams et al (2015) Modulation of neurosteroid potentiation by protein kinases at synaptic- and extrasynaptic-type GABA_A receptors. *Neuropharmacology*. **88** 63. PMID: 25278033.

Villumsen et al (2015) Pharmacological characterisation of murine α 4 β 1 δ GABA_A receptors expressed in *Xenopus* oocytes. *BMC.Neurosci.* **16**. PMID: 25887256.

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.

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