

3 α ,21-Dihydroxy-5 α -pregnan-20-one

Chemical Properties

CAS No. : 567-02-2

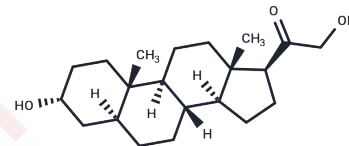
Formula: C₂₁H₃₄O₃

Molecular Weight: 334.49

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	3 α ,21-Dihydroxy-5 α -pregnan-20-one (5 α -THDOC) is a neurosteroid, a gamma-aminobutyric acid (GABAA) modulator, which is used in the study of neurological disorders such as Alzheimer's disease.
Targets(IC50)	GABA Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9896 mL	14.9481 mL	29.8963 mL
5 mM	0.5979 mL	2.9896 mL	5.9793 mL
10 mM	0.299 mL	1.4948 mL	2.9896 mL
50 mM	0.0598 mL	0.299 mL	0.5979 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

Deligiannidis KM, Kroll-Desrosiers AR, Tan Y, Dubuke ML, Shaffer SA. Longitudinal proneuroactive and neuroactive steroid profiles in medication-free women with, without and at-risk for perinatal depression: A liquid chromatography-tandem mass spectrometry analysis. *Psychoneuroendocrinology*. 2020 Nov;121:104827.

Germann AL, Reichert DE, Burbridge AB, Pierce SR, Evers AS, Steinbach JH, Akk G. Analysis of Modulation of the $\rho 1$ GABAA Receptor by Combinations of Inhibitory and Potentiating Neurosteroids Reveals Shared and Distinct Binding Sites. *Mol Pharmacol*. 2020 Oct;98(4):280-291.

Saleh H, Sadeghi L. Investigation of THDOC effects on pathophysiological signs of Alzheimer's disease as an endogenous neurosteroid: inhibition of acetylcholinesterase and plaque deposition. *Bratisl Lek Listy*. 2019;120(2):148-154.

Meis S, Endres T, Munsch T, Lessmann V. Presynaptic Regulation of Tonic Inhibition by Neuromodulatory Transmitters in the Basal Amygdala. *Mol Neurobiol*. 2018 Nov;55(11):8509-8521.

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