

Product Name: Ganaxolone

Catalog No.: 2531

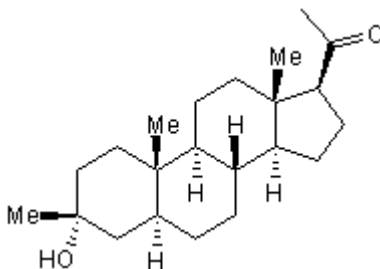
Batch No.: 3

CAS Number: 38398-32-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₆O₂
Batch Molecular Weight: 332.53
Physical Appearance: White solid
Solubility: DMSO to 10 mM with gentle warming
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Diethyl ether:Petroleum ether [1:1])
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.47	10.91	
Found	79.45	11.06	0.1

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

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Description:

Potent positive allosteric modulator of GABA_A receptors. Enhances GABA-evoked chloride currents in *Xenopus* oocytes expressing GABA_A receptors (EC₅₀ values are 94, 122 and 213 nM for α 2 β 1 γ 2_L, α 3 β 1 γ 2_L and α 1 β 1 γ 2_L receptors respectively). Exerts anticonvulsive effects in a broad range of animal seizure models.

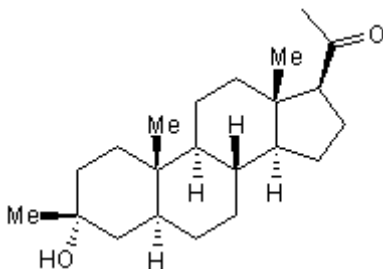
Physical and Chemical Properties:

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Physical Appearance: White solid

Batch Molecular Structure:



References:

Carter et al (1997) Characterization of the anticonvulsive properties of ganaxolone (CCD 1044; 3 α -hydroxy-3 β -methyl-5 α -pregnan-20-one), a selective, high affinity, steroid modulator of the γ -aminobutyric acid_A receptor. *J.Pharmacol.Exp.Ther.* **280** 1284. PMID: 9067315.

Lyden et al (2000) Effect of ganaxolone in a rodent model of cerebral hematoma. *Stroke* **31** 169. PMID: 10625734.

Ungard et al (2000) Modification of behavioral effects of drugs in mice by neuroactive steroids. *Psychopharmacology* **148** 336. PMID: 10928304.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming
ethanol to 20 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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