

**Product Name:** Ganaxolone

**Catalog No.:** 2531

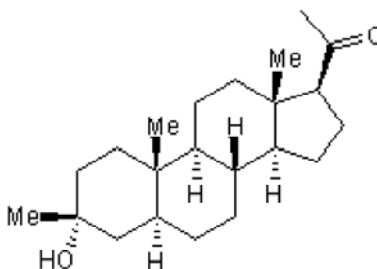
**Batch No.:** 3

CAS Number: 38398-32-2

IUPAC Name: (3 $\alpha$ ,5 $\alpha$ )-3-Hydroxy-3-methyl-pregnan-20-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>36</sub>O<sub>2</sub>  
**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<sub>f</sub> = 0.15 (Diethyl ether:Petroleum ether [1:1])  
**<sup>1</sup>H 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

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**Description:**

Ganaxolone is a potent positive allosteric modulator of GABA<sub>A</sub> receptors. Enhances GABA-evoked chloride currents in *Xenopus* oocytes expressing GABA<sub>A</sub> receptors (EC<sub>50</sub> values are 94, 122 and 213 nM for  $\alpha$ 2 $\beta$ 1 $\gamma$ 2<sub>L</sub>,  $\alpha$ 3 $\beta$ 1 $\gamma$ 2<sub>L</sub> and  $\alpha$ 1 $\beta$ 1 $\gamma$ 2<sub>L</sub> receptors respectively). Exerts anticonvulsive effects in a broad range of animal seizure models.

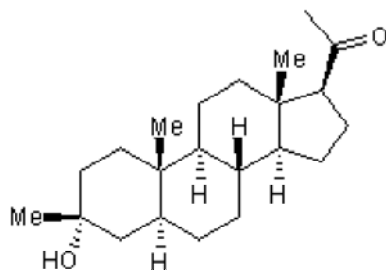
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Physical Appearance: White solid

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**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.

**References:**

**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.

**Carter *et al*** (1997) Characterization of the anticonvulsive properties of ganaxolone (CCD 1044; 3 $\alpha$ -hydroxy-3 $\beta$ -methyl-5 $\alpha$ -pregnan-20-one), a selective, high affinity, steroid modulator of the  $\gamma$ -aminobutyric acid<sub>A</sub> receptor. *J.Pharmacol.Exp.Ther.* **280** 1284. PMID: 9067315.

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