Datasheet

Product overview

**Name**
Ganaxolone

**Cat No**
HB0938

**Short description**
Potent GABA\(\alpha\) receptor positive allosteric modulator

**Biological description**
Potent GABA\(\alpha\) receptor positive allosteric modulator (EC\(_{50}\) values are 94, 122 and 213 nM for \(\alpha_2\beta_1\gamma_2L\), \(\alpha_3\beta_1\gamma_2L\) and \(\alpha_1\beta_1\gamma_2L\) receptors respectively). Neuroactive steroid; enhances [3H]flunitrazepam binding (EC\(_{50}\) = 125 nM). Decreases ethanol consumption in addiction models and shows actions against Multiple Sclerosis. Shows sedative, anxiolytic and anticonvulsant effects. Blood-brain barrier permeable.

**Biological action**
PAM

Properties

**Chemical name**
(3α,5α)-3-Hydroxy-3-methyl-pregnan-20-one

**Molecular Weight**
332.53

**Chemical structure**

![Chemical structure of Ganaxolone](image)

**Molecular Formula**
C\(_{22}\)H\(_{36}\)O\(_2\)

**CAS Number**
38398-32-2

Storing and Using Your Product

**Storage instructions**
+4°C

**Solubility overview**
soluble in DMSO (100mM) or ethanol (100mM)

**Important**
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for Ganaxolone

**Characterization of the anticonvulsant properties of ganaxolone (CCD 1042; 3alpha-hydroxy-3beta-methyl-5alpha-pregnan-20-one), a selective, high-affinity, steroid modulator of the gamma-aminobutyric acid(A) receptor.**


**PubMedID:**
9067315
Effect of ganaxolone and THIP on operant and limited-access ethanol self-administration.


PubMedID: 22613838

GABA transport and neuroinflammation are coupled in multiple sclerosis: regulation of the GABA transporter-2 by ganaxolone.


PubMedID: 24814730