### Product overview

**Name**
Ganaxolone

**Cat No**
HB0938

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

**Biological description**
Potent GABA\(_A\) receptor positive allosteric modulator (EC\(_{50}\) values are 94, 122 and 213 nM for \(\alpha_2\beta_1\gamma_2\)L, \(\alpha_3\beta_1\gamma_2\)L and \(\alpha_1\beta_1\gamma_2\)L 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**

- **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