Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

Ganaxolone

Product overview

Name	Ganaxolone
Cat No	HB0938
Alternative names	CCD 1042
Biological action	PAM
Description	Potent $GABA_A$ receptor positive allosteric modulator

Images

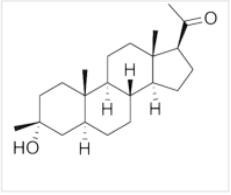
Biological Data

Biological description	Potent $GABA_A$ receptor positive allosteric modulator (EC_{50} values are 94, 122 and 213 nM for α2β1γ2L, α3β1γ2L and α1β1γ2L 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.

Solubility & Handling

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

Chemical Data

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
PubChem identifier	6918305
SMILES	O[C@]1(C)CC[C@@]2(C)[C@](CC[C@]3([H])[C@@]([H])2CC[C@@]4(C)[C@]([H])3CC[C@@H]4[C@](C)=O)([H])C1
InChiKey	PGTVWKLGGCQMBR-FLBATMFCSA-N

References

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.

Carter RB *et al* (1997) J Pharmacol Exp Ther 280(3)
PubMedID 9067315

Effect of ganaxolone and THIP on operant and limited-access ethanol self-administration.

Ramaker MJ *et al* (2012) Neuropharmacology 63(4)
PubMedID 22613838

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

Paul AM *et al* (2014) Neuroscience 273
PubMedID 24814730