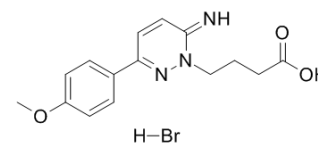


Gabazine

Cat. No.:	HY-103533		
CAS No.:	104104-50-9		
Molecular Formula:	C ₁₅ H ₁₈ BrN ₃ O ₃		
Molecular Weight:	368.23		
Target:	GABA Receptor		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 75 mg/mL (203.68 mM)

* " \geq " means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.7157 mL	13.5785 mL	27.1569 mL
	5 mM		0.5431 mL	2.7157 mL	5.4314 mL
	10 mM		0.2716 mL	1.3578 mL	2.7157 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Gabazine is a selective and competitive antagonist of GABA _A receptor, with an IC ₅₀ of ~0.2 μM for GABA receptor.
IC ₅₀ & Target	0.2 μM (GABA receptor) ^[1] .
In Vitro	Both bicuculline and Gabazine (SR 95531) have been characterized as competitive inhibitors of GABA binding to the GABA _A receptor. Gabazine is more potent than bicuculline at blocking currents elicited by GABA, with an IC ₅₀ for currents elicited by 3 μM GABA of ~0.2 μM and a Hill coefficient of 1.0. Gabazine reduces the currents elicited by 10 μM alphaxalone by ~30%, for responses of receptors containing wildtype β2 subunits. The concentration of Gabazine requires producing half the maximal block is ~0.2 μM. Gabazine also could only produce a partial block of currents gated by 300 μM pentobarbital. The maximal reduction, again, is ~30%, and the concentration of Gabazine required to produce half the maximal block is ~0.15 μM ^[1] .

REFERENCES

[1]. Ueno S, et al. Bicuculline and gabazine are allosteric inhibitors of channel opening of the GABAA receptor. J Neurosci. 1997 Jan 15;17(2):625-34.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA