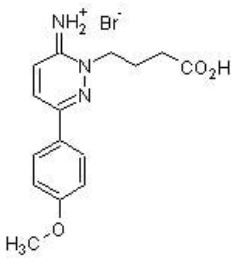
abcam

Product datasheet

SR95531 (Gabazine), GABAA antagonist ab120042

152 References 3 Images

Overview

Product name	SR95531 (Gabazine), GABAA antagonist
Description	$GABA_A$ antagonist
Biological description	Selective, competitive $GABA_A$ receptor antagonist. Allosteric inhibitor of channel opening of the $GABA_A$ receptor. Displaces [^{3}H]-GABA from rat brain membranes with a K_i of 150 nM. Also available in simple stock solutions (**ab144487**) - add 1 ml of water to get an exact, ready-to-use concentration.
CAS Number	104104-50-9
Chemical structure	

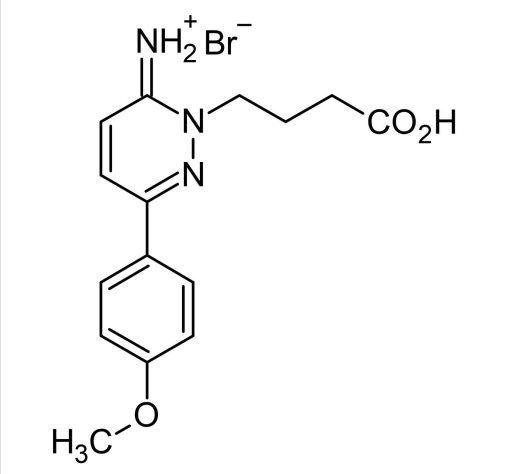
Properties

Chemical name	2-(3-Carboxypropyl)-3-amino-6-(4 methoxyphenyl)pyridazinium bromide
Molecular weight	368.23
Molecular formula	$C_{15}H_{17}N_3O_3$.HBr
PubChem identifier	107895
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 25 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our **frequently asked**

questions (FAQ) page for more details.

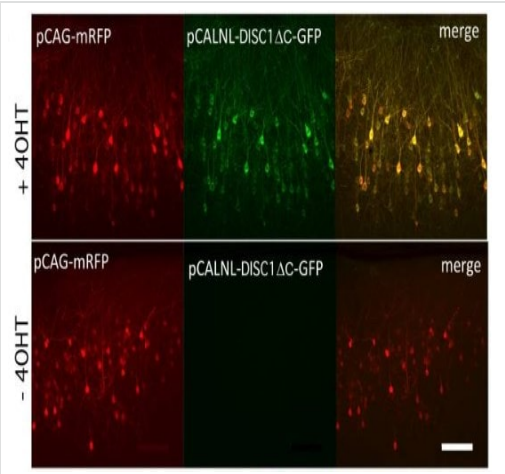
SMILES	[Br-].COc1ccc(cc1)C=2C=CC(=[NH2+])N(CCCC(=O)O)N=2
Source	Synthetic

Images



Chemical Structure - SR95531 (Gabazine), $GABA_A$ antagonist (ab120042)

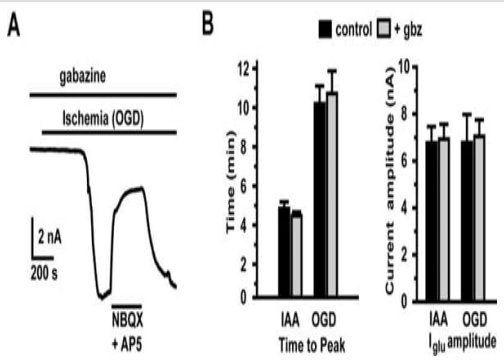
2D chemical structure image of ab120042, SR95531 (Gabazine), GABAA antagonist



Cellular activation - SR95531 (Gabazine), $GABA_A$ antagonist (ab120042)

Image from Maher BJ, LoTurco JJ, Plos One, 7(3), e34053. Fig 1,; doi: 10.1371/journal.pone.0034053

Expression of DISC1ΔC is induced by postnatal administration of 4-OHT as seen by expression of GFP fused to DISC1ΔC in this P28 brain slice. No GFP expression is observed in vehicle treated animals (- 4-OHT). Scale bar equals 100 µm. Performed in the presence of gabazine (5 µM) and TTX (1 µM).



Functional Studies - SR95531 (Gabazine), $GABA_A$ antagonist (ab120042)

Image from Brady JD et al., Neuroscience. 2010;168(1):108-17. Fig 3.; doi: 10.1016/j.neuroscience.2010.03.009 with permission from Elsevier.

A. Purkinje cell response to simulated ischemia (OGD only) in the continuous presence of the GABAA antagonist GABAzine (ab120042, 10 µM), and during subsequent block of glutamate receptors with AP5 (**ab120003**, 50 µM) + NBQX (**ab120045**, 25 µM). B. Bar charts summarize the timing and magnitude of ischemia-induced glutamate currents (for both methods of simulating ischemia) with and without GABAA receptors blocked. Iglu is the magnitude of current blocked by AP5 (**ab120003**, 50 µM) + NBQX (**ab120045**, 25 µM).

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