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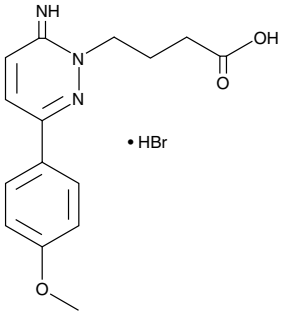
Product Information

SR 95531 (hydrobromide)

Item No. 14585

CAS Registry No.: 104104-50-9
Formal Name: 6-imino-3-(4-methoxyphenyl)-1(6H)-pyridazinebutanoic acid, monohydrobromide
Synonym: Gabazine
MF: $C_{15}H_{17}N_3O_3$ • HBr
FW: 368.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 204, 283 nm



Laboratory Procedures

For long term storage, we suggest that SR 95531 (hydrobromide) be stored as supplied at -20°C. It should be stable for at least two years.

SR 95531 (hydrobromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the SR 95531 (hydrobromide) in the solvent of choice. SR 95531 (hydrobromide) is soluble in the organic solvent methanol, which should be purged with an inert gas, at a concentration of approximately 1 mg/ml.

SR 95531 (hydrobromide) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SR 95531 (hydrobromide) should first be dissolved in methanol and then diluted with the aqueous buffer of choice. SR 95531 (hydrobromide) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of methanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

SR 95531 is a derivative of γ-aminobutyric acid (GABA) that acts as an antagonist of $GABA_A$ receptors (K_i = 74-150 nM).[1-3] When administered intravenously, it elicits seizures in mice.[1] SR 95531 differs in action from bicuculline (Item No. 11727) in that it antagonizes GABA-induced chloride currents but not those induced by pentobarbitone.[4] It is effective against $GABA_A$ receptor isoforms from mice, rats, and humans.[1,2,5]

References

1. Heaulme, M., Chambon, J.-P., Leyris, R., *et al.* Biochemical characterization of the interaction of three pyridazinyl-GABA derivatives with the GABAA receptor site. *Brain Res.* **384**, 224-231 (1986).
2. Melikian, A., Schlewer, G., Chambon, J.-P., *et al.* Condensation of muscimol or thiomuscimol with aminopyridazines yields GABA-A antagonists. *J. Med. Chem.* **35(22)**, 4092-4097 (1992).
3. Krehan, D., Storustovu, S.ķ., Liljefors, T., *et al.* Potent 4-arylalkyl-substituted 3-isothiazolol $GABA_A$ competitive/noncompetitive antagonists: Synthesis and pharmacology. *J. Med. Chem.* **49(4)**, 1388-1396 (2006).
4. Uchida, I., Cestari, I.N., and Yang, J. The differential antagonism by bicuculline and SR95531 of pentobarbitone-induced currents in cultured hippocampal neurons. *Eur. J. Pharmacol.* **307(1)**, 89-96 (1996).
5. Mendu, S.K., Bhandage, A., Jin, Z., *et al.* Different subtypes of GABA-A receptors are expressed in human, mouse and rat T lymphocytes. *PLoS One* **7(8)**, (2012).

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