

Product Name: SR 95531 hydrobromide

Catalog No.: 1262

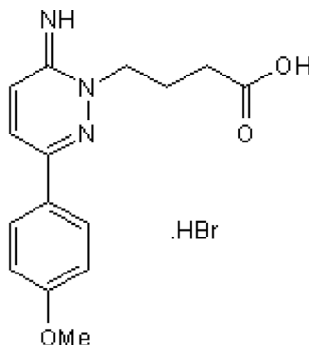
Batch No.: 16

CAS Number: 104104-50-9

IUPAC Name: 6-Imino-3-(4-methoxyphenyl)-1(6H)-pyridazinebutanoic acid hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₇N₃O₃.HBr.
Batch Molecular Weight: 368.23
Physical Appearance: White solid
Solubility: water to 25 mM
 phosphate buffered saline to 5 mM
 ethanol to 20 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.93	4.93	11.41
Found	48.54	4.73	11

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

SR 95531 hydrobromide is a selective, competitive GABA_A receptor antagonist and allosteric inhibitor (IC₅₀ = 200 nM). SR 95531 displaces [³H]-GABA from rat brain membranes with a K_i of 150 nM. Unlike Bicuculline (Cat. No. 0130), SR 95531 selectively antagonizes GABA-induced Cl⁻ currents with little action on Pentobarbitone-induced currents (Cat. No. 4579). SR 95531 can act as an agonist at high concentrations (>100 μM) and is a weak agonist at GABA_A receptors with α1β2(γ157S)γ2L subunits. SR 95531 also acts as a competitive antagonist of recombinant glycine receptors and exhibits greater potency at glycine receptors contain... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

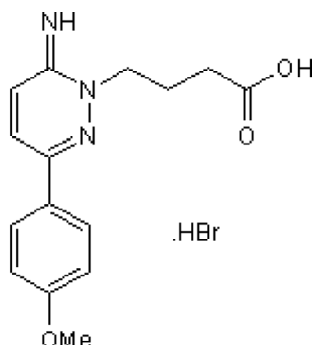
Batch Molecular Formula: C₁₅H₁₇N₃O₃.HBr.

Batch Molecular Weight: 368.23

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 mM
phosphate buffered saline to 5 mM
ethanol to 20 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Bright and Smart (2013) Methods for recording and measuring tonic GABA_A receptor-mediated inhibition. *Front.Neural Circuits* **7** 193. PMID: 24367296.

Beato et al (2007) The kinetics of inhibition of rat recombinant heterotrimeric α1β glycine receptors by the low affinity antagonist SR-95531. *J.Physiol.* **580** 171. PMID: 17218350.

Wang and Slaughter (2005) Effects of GABA receptor antagonists on retinal glycine receptors and on homomeric glycine receptor alpha subunits. *J.Neurophysiol.* **93** 3120. PMID: 15728760.

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