

## Certificate of Analysis

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**Product Name:** SR 95531 hydrobromide

**Catalog No.:** 1262

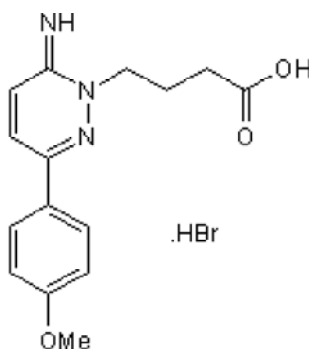
**Batch No.:** 15

CAS Number: 104104-50-9

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub>.HBr  
**Batch Molecular Weight:** 368.23  
**Physical Appearance:** Off 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 99% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	48.93	4.93	11.41
Found	48.95	4.89	11.47

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

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

**Description:**

Selective, competitive GABA<sub>A</sub> receptor antagonist. Displaces [<sup>3</sup>H]-GABA from rat brain membranes with a K<sub>i</sub> of 150 nM. Unlike bicuculline, selectively antagonizes GABA-induced Cl<sup>-</sup> currents with little action on pentobarbitone-induced currents. Also acts as a low affinity glycine receptor antagonist.

**Physical and Chemical Properties:**

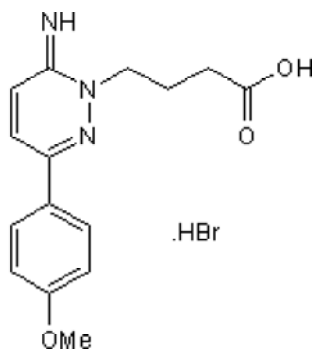
Batch Molecular Formula: C<sub>15</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub>.HBr

Batch Molecular Weight: 368.23

Physical Appearance: Off 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. Our standard recommendations are:

**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:**

**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.

**Uchida *et al*** (1996) The differential antagonism by bicuculline and SR95531 of pentobarbitone-induced currents in cultured hippocampal neurons. *Eur.J.Pharmacol.* **307** 89. PMID: 8831109.

**Heulme *et al*** (1986) Biochemical characterization of the interaction of three pyridazinyl-GABA derivatives with the GABA<sub>A</sub> receptor site. *Brain Res.* **384** 224. PMID: 3022866.

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