

## Certificate of Analysis

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**Product Name:** SIB 1893

**Catalog No.:** 1214

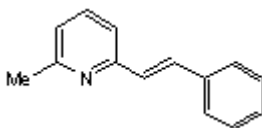
**Batch No.:** 1

**CAS Number:** 6266-99-5

**IUPAC Name:** 2-Methyl-6-(2-phenylethenyl)pyridine

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>13</sub>N  
**Batch Molecular Weight:** 195.26  
**Physical Appearance:** White crystalline solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.5 (Diethyl ether:Hexane [1:2])  
**Melting Point:** Between 45 - 48°C  
**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen			
Theoretical	86.12	6.71	7.17	0 0 0
Found	86.13	6.72	7.16	0 0 0

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

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**Description:**

A highly selective non-competitive antagonist for the metabotropic glutamate mGlu<sub>5</sub> receptor subtype; displays an IC<sub>50</sub> value of 0.3 µM at hmGlu<sub>5</sub>, compared with > 100 µM at hmGlu<sub>1b</sub>, hmGlu<sub>2</sub>, hmGlu<sub>6</sub>, hmGlu<sub>7</sub> and hmGlu<sub>8</sub>. Centrally active upon systemic administration in vivo. Positive allosteric modulator at mGlu<sub>4</sub> receptors.

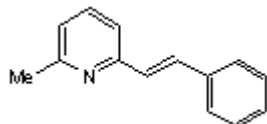
**Physical and Chemical Properties:**

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**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

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:**

**Varney *et al*** (1999) SIB-1757 and SIB-1893: selective, noncompetitive antagonists of metabotropic glutamate receptor type 5. *J.Pharmacol.Exp.Ther.* **290** 170. PMID: 10381773.

**Chapman *et al*** (2000) Anticonvulsant activity of two metabotropic glutamate group I antagonists selective for the mGlu5 receptor: 2-methyl-6-(phenylethynyl)-pyridine (MPEP), and (E)-6-methyl-2-styryl-pyridine (SIB 1893). *Neuropharmacology* **39** 1567. PMID: 10854901.

**Mathiesen *et al*** (2003) Positive allosteric modulation of the human metabotropic glutamate receptor 4 (hmGluR4) by SIB-1893 and MPEP. *Br.J.Pharmacol.* **138** 1026. PMID: 12684257.

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