Print Date: Jan 27th 2018

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: $C_{14}H_{13}N$

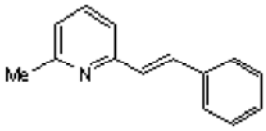
Batch Molecular Weight: 195.26

Physical Appearance: White crystalline solid

Solubility: DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Diethyl ether:Hexane [1:2])

Melting Point: Between 45 - 48°C

^{1}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

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Description:

A highly selective non-competitive antagonist for the metabotropic glutamate $mGlu_5$ receptor subtype; displays an IC_{50} value of 0.3 μM at $hmGlu_5$, compared with > 100 μM at $hmGlu_{1b}$, $hmGlu_2$, $hmGlu_6$, $hmGlu_7$ and $hmGlu_8$. Centrally active upon systemic administration in vivo. Positive allosteric modulator at $mGlu_4$ receptors.

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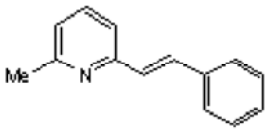

Storage: Desiccate at +4°C

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:

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.

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.

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.