1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{14}\text{H}_{13}\text{N} \)
Batch Molecular Weight: 195.26
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.5 \) (Diethyl ether:Hexane [1:2])
Melting Point: Between 45 - 48°C
\(^1\text{H} \text{NMR:}\) Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>86.12</td>
<td>6.71</td>
<td>7.17</td>
</tr>
<tr>
<td>Found</td>
<td>86.13</td>
<td>6.72</td>
<td>7.16</td>
</tr>
</tbody>
</table>
Product Information

Product Name: SIB 1893
Catalog No.: 1214
Batch No.: 1

CAS Number: 6266-99-5
IUPAC Name: 2-Methyl-6-(2-phenylethenyl)pyridine

Description:
A highly selective non-competitive antagonist for the metabotropic glutamate mGlu5 receptor subtype; displays an IC\(_{50}\) value of 0.3 μM at hmGlu5, compared with > 100 μM at hmGlu1a, hmGlu2, hmGlu3, hmGlu7 and hmGlu8. Centrally active upon systemic administration in vivo. Positive allosteric modulator at mGlu4 receptors.

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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:
