1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₉NO₂.HCl
Batch Molecular Weight: 163.6
Physical Appearance: White crystalline solid
Solubility: water to 100 mM
phosphate buffered saline to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: Rₜ = 0.26 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Greater than 250°C
HPLC: Shows 100% purity
¹H 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>44.05</td>
<td>6.16</td>
<td>8.56</td>
</tr>
<tr>
<td>Found</td>
<td>43.75</td>
<td>6.26</td>
<td>8.41</td>
</tr>
</tbody>
</table>
Product Name: Guvacine hydrochloride

CAS Number: 6027-91-4
IUPAC Name: 1,2,5,6-Tetrahydropyridine-3-carboxylic acid hydrochloride

Description:
Specific GABA uptake inhibitor. IC values are 14, 58, 119 and 1870 μM for hGAT-1, rGAT-2, hGAT-3 and hBGT-1 respectively.

Physical and Chemical Properties:
Batch Molecular Formula: C<sub>6</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>·HCl
Batch Molecular Weight: 163.6
Physical Appearance: White crystalline solid
Minimum Purity: >99%

Batch Molecular Structure:

<table>
<thead>
<tr>
<th>Storage: Store at RT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility &amp; Usage Info:</td>
</tr>
<tr>
<td>water to 100 mM</td>
</tr>
<tr>
<td>phosphate buffered saline to 100 mM</td>
</tr>
</tbody>
</table>

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: