1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{30}N_2.2HBr$

Batch Molecular Weight: 412.25

Physical Appearance: White solid

Solubility:
- Water to 100 mM
- DMSO to 50 mM

Storage:
- Store at RT

2. ANALYTICAL DATA

TLC: $R_f = 0.14$ (Dichloromethane:Methanol:Ammonia soln. [79:20:1])

HPLC: Shows 100% purity

$^1$H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>46.62</td>
<td>46.58</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.82</td>
<td>7.76</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.8</td>
<td>6.74</td>
</tr>
</tbody>
</table>
Product Information

Product Name: IEM 1754 dihydrobromide
Catalog No.: 4199    Batch No.: 1

CAS Number: 162831-31-4
IUPAC Name: N-(Tricyclo[3.3.1.13,7]dec-1-ylmethyl)-1,5-pentanediamine dihydrobromide

Description:
Voltage-dependent open-channel blocker of AMPA receptors. Selective between subtypes; blocks GluR2 subunit-lacking (Ca2+-permeable) receptors more potently than GluR2-containing receptors. Also potently blocks NMDA receptor channels. Less sensitive than IEM 1460 (Cat. No. 1460) at a holding potential between -40 and -80mV.

Physical and Chemical Properties:
Batch Molecular Formula: C_{10}H_{16}N_{2}.2HBr
Batch Molecular Weight: 412.25
Physical Appearance: White solid
Minimum Purity: >98%

Solubility & Usage Info:
- water to 100 mM
- DMSO to 50 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival.

Storage: Store at RT

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: