Product Name: GYKI 47261 dihydrochloride
Catalog No.: 3099 Batch No.: 1
CAS Number: 1217049-32-5
IUPAC Name: 4-(8-Chloro-2-methyl-11H-imidazo[1,2-c][2,3]benzodiazepin-6-benzeneamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{18}H_{15}ClN_{4}.2HCl.1\frac{3}{4}H_{2}O
Batch Molecular Weight: 427.23
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: R\_f = 0.5 (Chloroform:Methanol [1:9])
HPLC: Shows 100% purity
\textsuperscript{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>50.6</td>
<td>50.69</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.84</td>
<td>4.76</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>13.11</td>
<td>13.05</td>
</tr>
</tbody>
</table>
**Product Name:** GYKI 47261 dihydrochloride  
**CAS Number:** 1217049-32-5  
**IUPAC Name:** 4-(8-Chloro-2-methyl-11H-imidazo[1,2-c][2,3]benzodiazepin-6-benzeneamine dihydrochloride

**Description:**
Non-competitive AMPA receptor antagonist (IC$_{50} = 2.5$ μM). Displays broad spectrum anticonvulsive activity and neuroprotective effects in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C$_{18}$H$_{15}$ClN$_{4}$.$2$HCl.$1$$\frac{1}{4}$H$_2$O
- **Batch Molecular Weight:** 427.23
- **Physical Appearance:** Yellow solid
- **Minimum Purity:** >99%

**Storage:** Store 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:**