1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{17}\text{H}_{15}\text{N}_{3}\text{O}_{2}\cdot\text{HCl}\cdot\frac{1}{2}\text{H}_{2}\text{O} \)

Batch Molecular Weight: 375.25

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM

Water to 10 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.42 \) (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 97.8% purity

\(^1\text{H NMR:}\) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
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<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>54.41</td>
<td>54.29</td>
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<tr>
<td>Hydrogen</td>
<td>4.83</td>
<td>4.64</td>
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<tr>
<td>Nitrogen</td>
<td>11.2</td>
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**Product Information**

**Product Name:** GYKI 52466 dihydrochloride  
**Catalog No.:** 1454

**CAS Number:** 2319722-40-0  
**IUPAC Name:** 4-(8-Methyl-9H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl)-benzenamine dihydrochloride

**Description:**
GYKI 52466 dihydrochloride is a selective noncompetitive AMPA receptor antagonist (IC₅₀ values are 10-20, ~ 450 and >50 μM for AMPA-, kainate- and NMDA-induced responses respectively). Skeletal muscle relaxant and orally-active anticonvulsant. Has anti-proliferative effects in transformed cells.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₁ H₁₀ N₂ O₅ HCl.½H₂O  
- **Batch Molecular Weight:** 375.25  
- **Physical Appearance:** Yellow solid  
- **Minimum Purity:** ≥98%

**Storage:** Store at -20°C

**Solubility & Usage Info:**
- DMSO to 50 mM  
- Water to 10 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:**

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**Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use**

<table>
<thead>
<tr>
<th>Region</th>
<th>Contact Information</th>
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<tbody>
<tr>
<td>bio-techne.com</td>
<td><a href="mailto:info@bio-techne.com">info@bio-techne.com</a> Tel: (800) 343 7475</td>
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