1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{17}H_{17}ClN_{2}O.HCl.\(\frac{3}{4}\)H_{2}O
- **Batch Molecular Weight:** 350.75
- **Physical Appearance:** Off White solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Store at +4°C
- **Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

- **HPLC:** Shows 99.9% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>58.21</td>
<td>5.6</td>
</tr>
<tr>
<td>Found</td>
<td>58.14</td>
<td>5.55</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Description:
Etifoxine hydrochloride is a potentiator of GABA<sub>A</sub> receptor function in cultured neurons. Preferentially acts on β<sub>2</sub> or β<sub>3</sub> subunit-containing GABA<sub>A</sub> receptors. Exhibits anxiolytic activity in rodents and humans with no sedative, myorelaxant or mnemonic side effects. Acts as a ligand of the translocator protein (TSPO); promotes axonal regeneration.

Physical and Chemical Properties:
Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>ClN<sub>2</sub>O.HCl.¾H<sub>2</sub>O
Batch Molecular Weight: 350.75
Physical Appearance: Off White solid
Minimum Purity: ≥98%

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: