Product Name: Xaliproden hydrochloride
Catalog No.: 2491
Batch No.: 2
CAS Number: 90494-79-4
IUPAC Name: 1,2,3,6-Tetrahydro-1-[2-(2-naphthalenyl)ethyl]-4-[3-(trifluoromethyl)phenyl]-pyridine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_{24}\text{H}_{22}\text{F}_{3}\text{N.HCl}$
- **Batch Molecular Weight:** 417.9
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM, ethanol to 20 mM
- **Storage:** Desiccate at RT

2. ANALYTICAL DATA

- **TLC:** $R_f = 0.8$ (Dichloromethane:Methanol [19:1])
- **HPLC:** Shows >99.6% 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>68.98</td>
<td>69.26</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.55</td>
<td>5.57</td>
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<tr>
<td>Nitrogen</td>
<td>3.35</td>
<td>3.38</td>
</tr>
<tr>
<td>Chlorine</td>
<td>8.48</td>
<td>8.36</td>
</tr>
</tbody>
</table>
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Description:
Orally active, full agonist at 5-HT₁A receptors. Binds rat 5-HT₁A with high affinity (Kᵢ = 2.0 nM) and is > 300-fold selective over other 5-HT receptor subtypes (IC₅₀ > 650 nM). Increases motoneuron survival and promotes effects of NGF on neurite outgrowth in vitro. Displays neurotrophic activity in several neurodegenerative models in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₄H₂₂F₃N.HCl
Batch Molecular Weight: 417.9
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 20 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: