1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{18}\text{H}_{22}\text{Cl}_{2}\text{NO}_{3}\text{P.HCl} \)
Batch Molecular Weight: 438.71
Physical Appearance: White solid
Solubility: DMSO to 100 mM with gentle warming
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.55 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 99.9% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = -33.7 \) (Concentration = 1, Solvent = Methanol)
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>49.28</td>
<td>49.02</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.28</td>
<td>5.29</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>3.19</td>
<td>3.16</td>
</tr>
</tbody>
</table>
Description:
Potent, selective GABA<sub>B</sub> receptor antagonist (IC<sub>50</sub> = 5 nM) that prevents agonist binding (pK<sub>A</sub> = 8.35) and inhibits GABA and glutamate release (pEC<sub>50</sub> values are 8.08 and 7.85 respectively). Inhibits GABA<sub>B</sub> responses to baclofen (IC<sub>50</sub> = 130 nM in an isoproterenol assay) and potentiates the hypoglycemic response to glucose in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C<sub>19</sub>H<sub>22</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>5</sub>P.HCl
Batch Molecular Weight: 438.71
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at RT
Solubility & Usage Info:
DMSO to 100 mM with gentle warming

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: