1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{18}H_{22}Cl_{2}NO_{3}P.HCl
- **Batch Molecular Weight:** 438.71
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM with gentle warming
- **Storage:** Store at RT
- **Batch Molecular Structure:**

![Chemical Structure](image)

2. ANALYTICAL DATA

- **TLC:** R_{f} = 0.55 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
- **HPLC:** Shows 98.7% purity
- **^1H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** \([\alpha]_D = -31.9\) (Concentration = 1, Solvent = Methanol)
- **Microanalysis:** Carbon Hydrogen Nitrogen
  
<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>49.28</td>
<td>49.08</td>
</tr>
<tr>
<td>5.28</td>
<td>5.31</td>
</tr>
<tr>
<td>3.19</td>
<td>3.23</td>
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</tbody>
</table>
Description:
Potent, selective GABA\textsubscript{A} receptor antagonist (IC\textsubscript{50} = 5 nM) that prevents agonist binding (pK\textsubscript{A} = 8.35) and inhibits GABA and glutamate release (pEC\textsubscript{50} values are 8.08 and 7.85 respectively). Inhibits GABA\textsubscript{A} responses to baclofen (IC\textsubscript{50} = 130 nM in an isoproterenol assay) and potentiates the hypoglycemic response to glucose in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{18}H\textsubscript{12}Cl\textsubscript{2}NO\textsubscript{3}P.HCl
Batch Molecular Weight: 438.71
Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

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.

Licensing Information:
Sold with the permission of Novartis Pharma AG

References:
Deisz (1999) The GABA\textsubscript{A} antagonist CGP 55845A reduces presynaptic GABA\textsubscript{A} actions in neurons of the rat in vitro. Neuroscience 93 1241. PMID: 10501448.