1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** \( C_{20}H_{24}N_2O_2 \)

**Batch Molecular Weight:** 324.42

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM, ethanol to 25 mM

**Storage:** Store at -20°C

2. ANALYTICAL DATA

**HPLC:** Shows 86.9% 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>74.04</td>
<td>73.94</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.46</td>
<td>7.42</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.64</td>
<td>8.6</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Quinidine

Catalog No.: 4108
Batch No.: 1

CAS Number: 56-54-2
EC Number: 200-279-0

IUPAC Name: ((S)-(6-Methoxyquinolin-4-yl)((2R,4S,8R)-8-vinylquinuclidin-2-yl)methanol hydrochloride

Description:
Class IA antiarrythmic; reduces both Na+ and K+ channel currents, including I\textsubscript{Na}, I\textsubscript{K}, and I\textsubscript{Ks}. Prolongs QT and induces torsade de pointes (TdP).

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{20}H\textsubscript{24}N\textsubscript{2}O\textsubscript{2}
Batch Molecular Weight: 324.42
Physical Appearance: White solid

Batch Molecular Structure:

![Molecular Structure Image]

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 25 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: