Product Name: Bepridil hydrochloride
Catalog No.: 4117  Batch No.: 2
CAS Number: 68099-86-5
IUPAC Name: N-Benzyl-N-(3-isobutoxy-2-pyrrolidin-1-yl-propyl)aniline hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{24}H_{34}N_2O.HCl.H_2O \)
Batch Molecular Weight: 421.02
Physical Appearance: Pink solid
Solubility: DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>68.47</td>
<td>68.55</td>
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<tr>
<td>Hydrogen</td>
<td>8.86</td>
<td>8.69</td>
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<tr>
<td>Nitrogen</td>
<td>6.65</td>
<td>6.78</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Description:
Calcium channel blocker. Also inhibits Na+/Ca2+ exchange (NCX), sodium channels and cardiac sarclemmal K_{ATP} channels; opens mitochondrial K_{ATP} channels. Antiarrhythmic and antihypertensive; acts as a calcium sensitizer.

Physical and Chemical Properties:
Batch Molecular Formula: C_{24}H_{34}N_{2}O·HCl·H_{2}O
Batch Molecular Weight: 421.02
Physical Appearance: Pink solid
Minimum Purity: >99%

Storage: Desiccate at RT

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: