Product Name: Roxindole hydrochloride
CAS Number: 108050-82-4
IUPAC Name: 3-[4-(3,6-Dihydro-4-phenyl-1(2H)-pyridinyl)butyl]-1H-indol-5-ol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{23}H_{26}N_{2}O.HCl
   Batch Molecular Weight: 382.93
   Physical Appearance: Beige solid
   Solubility: DMSO to 50 mM with gentle warming
   Storage: Desiccate at -20°C

2. ANALYTICAL DATA

   HPLC: Shows 99% purity
   ¹H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   
<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>72.14</td>
<td>7.11</td>
</tr>
<tr>
<td>Found</td>
<td>72.16</td>
<td>7.35</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Description:**
Dopamine D₂ autoreceptor agonist, with affinity for D₃, D₄ and 5-HT₁ receptors (pKᵣ values are 8.55, 8.93, 8.23, 9.42, 6.00 and 7.05 for human D₂, D₃, D₄, 5-HT₁A, 5-HT₁B and 5-HT₁D receptors). Inhibits 5-HT uptake and is antidepressant in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₃H₂₃N₂O.HCl  
- **Batch Molecular Weight:** 382.93  
- **Physical Appearance:** Beige solid  
- **Minimum Purity:** >98%  
- **Batch Molecular Structure:**

![Molecular Structure of Roxindole](image)

**Storage:** Desiccate at -20°C  
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**
- DMSO to 50 mM with gentle warming  
CAUTION - Wherever possible stock solutions should be stored at -20°C and used within one week.

**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:**

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