Product Name: (R)-(-)-Apomorphine hydrochloride

CAS Number: 314-19-2

IUPAC Name: (R)-5,6,6a,7-Tetrahydro-6-methyl-4H-dibenzo[de,g]quinoline-10,11-diol hydrochloride

Catalog No.: 2073

EC Number: 206-243-0

Batch No.: 5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{17}NO_2\cdot HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 312.8

Physical Appearance: Off White solid

Solubility:
- Water to 50 mM
- DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

$^1$H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D = -52.1$ (Concentration = 1.2, Solvent = Water)

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>65.28</td>
<td>6.12</td>
<td>4.48</td>
</tr>
<tr>
<td>Found</td>
<td>65.27</td>
<td>6.13</td>
<td>4.48</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: (R)-(−)-Apomorphine hydrochloride
CAS Number: 314-19-2
IUPAC Name: (R)-5,6,6a,7-Tetrahydro-6-methyl-4H-dibenzo[de,g]quinoline-10,11-diol hydrochloride

Description:
Prototypical dopamine agonist (pKᵢ values are 6.43, 7.08, 7.59, 8.36 and 7.83 for human recombinant D₁, D₂L, D₃, D₄ and D₅ receptors respectively). Produces biphasic effects on locomotor activity, and displays anti-Parkinsonian and neuroprotective actions following systemic administration in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₁H₁₇N₂O₂.HCl.½H₂O
Batch Molecular Weight: 312.8
Physical Appearance: Off White solid
Minimum Purity: >99%

Storage: Store at RT
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:
water to 50 mM
DMSO to 100 mM
CAUTION - Aqueous solutions decompose on storage and should not be used if they turn green or brown, or contain a precipitate.

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 aliquotted 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: