Product Name: Verapamil hydrochloride

CAS Number: 152-11-4
EC Number: 205-800-5

IUPAC Name: α-[3-[2-[[3,4-Dimethoxyphenyl]ethyl]methylamino]propyl]-3,4-dimethoxy-α-(1-methylethyl)benzeneacetonitrile hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{27}H_{38}N_{2}O_{4}·HCl
Batch Molecular Weight: 491.07
Physical Appearance: White solid
Solubility:
- ethanol to 50 mM
- water to 100 mM
- DMSO to 50 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H 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>66.04</td>
<td>66.37</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.01</td>
<td>8.05</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.7</td>
<td>5.74</td>
</tr>
</tbody>
</table>
Product Name: Verapamil hydrochloride
Catalog No.: 0654 Batch No.: 8
EC Number: 205-800-5

CAS Number: 152-11-4
IUPAC Name: \( \alpha-[3-[2-(3,4-Dimethoxyphenyl)ethyl][methylamino]propyl]-3,4-dimethoxy-\alpha-(1-methylethyl)benzeneacetonitrile \) hydrochloride

Description:
L-type calcium channel blocker. Vasodilator, adrenergic antagonist.

Physical and Chemical Properties:
Batch Molecular Formula: \( \text{C}_{27}\text{H}_{38}\text{N}_{2}\text{O}_{4}\cdot\text{HCl} \)
Batch Molecular Weight: 491.07
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
ethanol to 50 mM
water to 100 mM
DMSO to 50 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:
Merck Index 12 10083.