Product Name: Verapamil hydrochloride
Catalog No.: 0654    Batch No.: 9
CAS Number: 152-11-4    EC Number: 205-800-5
IUPAC Name: \( \alpha \)-[3-[[2-(3,4-Dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-\( \alpha \)-(1-methylethyl)benzeneacetonitrile hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( C_{27}H_{38}N_2O_4.HCl \)
   Batch Molecular Weight: 491.07
   Physical Appearance: White solid
   Solubility: ethanol to 50 mM
               water to 50 mM
               DMSO to 50 mM
   Storage: Store at RT
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 100% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
                  Carbon   Hydrogen   Nitrogen
                  Theoretical 66.04  8.01  5.7
                  Found 66.05  8.12  5.69

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**Catalog No.:** 0654  
**Batch No.:** 9  
**EC Number:** 205-800-5

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

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

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{27}H_{39}N_{2}O_{6}.HCl  
- **Batch Molecular Weight:** 491.07  
- **Physical Appearance:** White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
- ethanol to 50 mM
- water to 50 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:**

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