

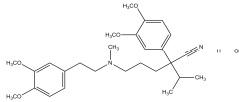
**PRODUCT: Verapamil hydrochloride**

**ALTERNATE NAME:**  $\alpha$ -[3-[[2-(3,4-Dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy- $\alpha$ -(1-methylethyl)benzeneacetonitrile hydrochloride

**CATALOG #:** 2861-1G, 5G

**AMOUNT:** 1 g, 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>27</sub>H<sub>38</sub>N<sub>2</sub>O<sub>4</sub>·HCl

**MOLECULAR WEIGHT:** 491.07

**CAS NUMBER:** 152-11-4

**APPEARANCE:** White solid

**SOLUBILITY:** Water (>40 mg/ml) or DMSO (>20 mg/ml) or EtOH (>20 mg/ml)

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20 °C. Protect from light and moisture

**DESCRIPTION:** Verapamil is a L-type Calcium channel blocker. It has both peripheral and coronary vasodilator effects (IC<sub>50</sub> = 0.38 μM in guinea pig aortic strip) and has been used to control hypertension, angina, cardiac arrhythmia, and vascular headaches. Verapamil also acts as an inhibitor of drug efflux pump proteins such as P-glycoprotein, which are often over-expressed in certain tumor cell line.

**REFERENCES:** Singh, B.L., *et al.* (1986). *Br. J. Clin. Pharmacol.* 109S-121S.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Amlodipine besylate (Cat. No. 2378-50, 250)

2-APB (Cat. No. 1798-100)

Calcitriol (Cat. No. 1880-50, 250)

Dantrolene sodium (Cat. No. 2491-100, 500)

Felodipine (Cat. No. 2399-10, 50)

GV-58 (Cat. No. 2616-1, 5)

Pamidronate disodium (Cat. No. 1884-50, 250)

Ruthenium Red (Cat. No. 2490-50, 250)

Ryanodine (Cat. No. 2489-500, 1000)

Thapsigargin (Cat. No. 1558-1)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**