Web: www.taiclone.com
Tel: +886-2-2735-9682
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# Verapamil (hydrochloride)

## Catalog No: tcsc1685

### Available Sizes

**Size:** 1g

**Size:** 5g

### Specifications

**CAS No:**
152-11-4

**Formula:**
$C_{27}H_{39}ClN_2O_4$

**Pathway:**
Membrane Transporter/Ion Channel

**Target:**
Calcium Channel

**Purity / Grade:**
>98%

**Solubility:**
DMSO : ≥ 31 mg/mL (63.13 mM)

**Alternative Names:**
(±)-Verapamil hydrochlorid

**Observed Molecular Weight:**
491.06

## Product Description

Verapamil hydrochloride is an L-type **calcium channel** antagonist.

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IC50 & Target: Calcium channel[1]

***In Vitro:*** Verapamil (hydrochloride) is an L-type calcium channel antagonist. The combination of Bortezomib and Verapamil (70 μM) markedly declines the viability of the JK-6L, RPMI 8226, and ARH-77 cell lines after 16 hours of culture[1]. The enzyme hydrolase activity of recombinant human carboxylesterase (CES2) is substantially inhibited by Verapamil with $K_i$ of 3.84±0.99μM[2].

***In Vivo:*** Verapamil, a calcium channel antagonist, is injected i.v. into a femoral vein prior to ischemia. Verapamil (1 mg/kg) significantly decreases the incidence of ventricular arrhythmias including premature ventricular contractions (PVC), ventricular tachycardia (VT) and ventricular fibrillation (VF) for 45-min coronary artery occlusion. Total arrhythmia scores are significantly increased when the heart is subjected to ischemia (P[3].