

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

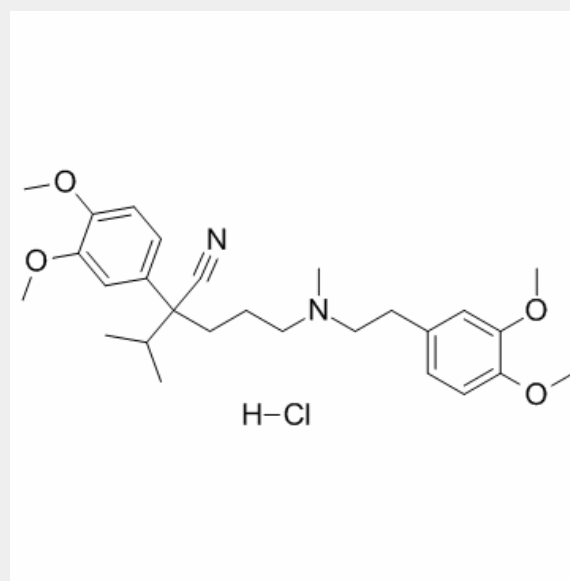
Product Description

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

IC50 & Target: Calcium channel^[1]

In Vitro: Verapamil (hydrochloride) is an L-type calcium channel antagonist. The combination of Bortezomib and Verapamil (70 μ M) 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 $3.84 \pm 0.99 \mu$ M^[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]).



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