

Felodipine

Catalog No: tcsc2348



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

72509-76-3

Formula:

$C_{18}H_{19}Cl_2NO_4$

Pathway:

Membrane Transporter/Ion Channel

Target:

Calcium Channel

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

384.25

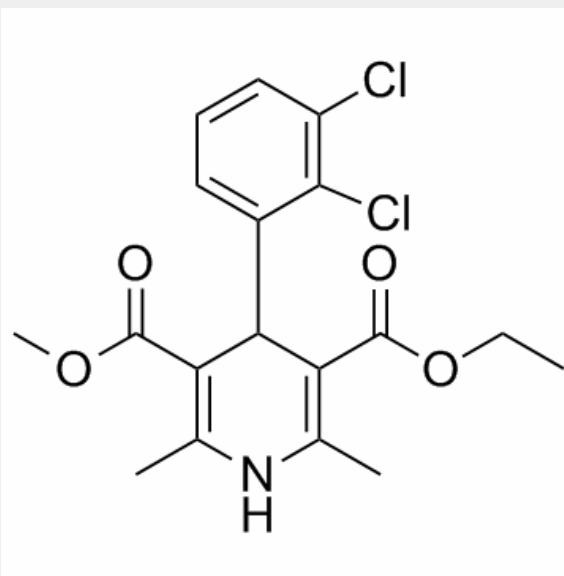
Product Description

Felodipine is a long-acting 1,4-dihydropyridine calcium channel blocker.

Target: Calcium Channel

Felodipine is a long-acting 1,4-dihydropyridine calcium channel blocker (CCB)^b. It acts primarily on vascular smooth muscle cells by stabilizing voltage-gated L-type calcium channels in their inactive conformation. Felodipine significantly relaxes KCl-contracted

porcine coronary segments by blocking the Ca²⁺ channels, displaying ~50 times more potent than nifedipine (IC₅₀ of ~8 nM) and ~430 times than verapamil (IC₅₀ of ~65 nM) [1]. Felodipine significantly induces the transcription and secretion of IL-6 and IL-8 with ED₅₀ values of 5.8 nM and 5.3 nM in primary human VSMC and lung fibroblasts, respectively, while propranolol or furosemide fails to affect the expression of the two IL genes [2]. Felodipine blocks the muscarinic receptor-mediated (carbachol) Ca²⁺-dependent contraction of guinea pig ileum longitudinal smooth muscle (GPILSM) with an IC₅₀ of 1.45 nM [3].



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