Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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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].