

Nitrendipine

Catalog No: tcsc2530



Available Sizes

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g



Specifications

CAS No:

39562-70-4

Formula:

$C_{18}H_{20}N_2O_6$

Pathway:

Membrane Transporter/Ion Channel

Target:

Calcium Channel

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

BAY-E-5009

Observed Molecular Weight:

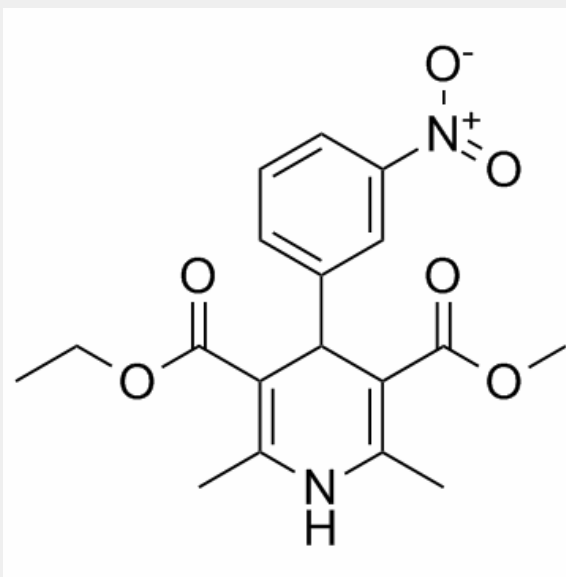
360.36

Product Description

Nitrendipine is a calcium channel blocker with marked vasodilator action.

Target: Calcium Channel

Nitrendipine is a dihydropyridine calcium channel blocker. It is used in the treatment of primary hypertension to decrease blood pressure. Nitrendipine blocked Ca^{2+} currents very potently, with half-block by subnanomolar concentrations. The concentration dependence of block had the form expected for 1:1 binding, with an apparent dissociation constant (K_d) of 0.36 nM. In contrast, when cells were held at hyperpolarized potentials, nitrendipine blocked Ca^{2+} currents much less potently (K_d approximately equal to 700 nM) [1, 2]. Nitrendipine, a potent analogue of nifedipine, binds in a reversible and saturable manner to partially purified guinea-pig heart membranes [3]. [^3H]nitrendipine binding in smooth muscle is to a site which mediates the pharmacologic response [4].



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