

Manidipine (dihydrochloride)

Catalog No: tcsc1132



Available Sizes

Size: 50mg

Size: 100mg



Specifications

CAS No:

89226-75-5

Formula:

$C_{35}H_{40}Cl_2N_4O_6$

Pathway:

Membrane Transporter/Ion Channel

Target:

Calcium Channel

Purity / Grade:

>98%

Solubility:

DMSO : 50 mg/mL (73.14 mM; Need ultrasonic)

Alternative Names:

CV-4093

Observed Molecular Weight:

683.62

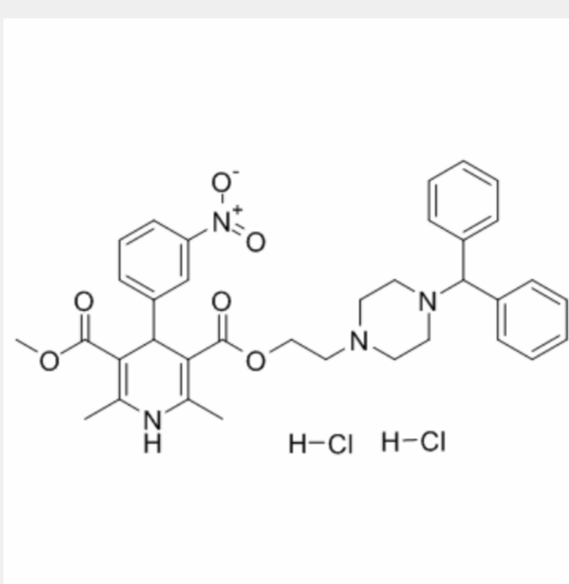
Product Description

Manidipine 2HCl (CV-4093) is a dihydropyridine compound and a calcium channel blocker for Ca²⁺ current with IC₅₀ of 2.6 nM.

IC50 value: 2.6 nM

Target: calcium channel

Manidipine is described to block T-type Ca²⁺ channels specifically and is also described to have a high selectivity for the vasculature, presenting negligible cardiodepression as compared to other Ca²⁺ channel antagonists. Manidipine is also described to not significantly affect norepinephrine levels, suggesting a lack of sympathetic activation with this compound. Manidipine reduces pro-inflammatory cytokines secretion in human endothelial cells and macrophages. Manidipine, unlike other third-generation dihydropyridine derived drugs, blocks T-type calcium channels present in the efferent glomerular arterioles, reducing intraglomerular pressure and microalbuminuria.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!