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

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.

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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.