



LKT Laboratories, Inc.

Manidipine Dihydrochloride

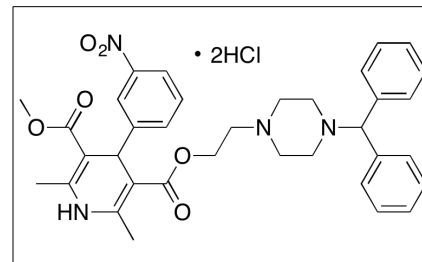
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Product Information

Product ID M0248
CAS No. 89226-75-5
Chemical Name

Synonym CV-4093

Formula $C_{35}H_{38}N_4O_6 \cdot 2HCl$
Formula Wt. 683.62
Melting Point
Purity $\geq 98\%$
Solubility DMSO (21 mg/mL)



Bulk quantities available upon request

Product ID	Size
M0248	25 mg
M0248	100 mg
M0248	250 mg

Store Temp Ambient
Ship Temp Ambient

Description Manidipine is a dihydropyridine inhibitor of L-type and T-type voltage-gated Ca^{2+} channels that decreases systemic blood pressure, glomerular capillary pressure, and renal vascular resistance, and increases renal blood flow in spontaneously hypertensive rats. In addition to its antihypertensive activity, manidipine also exhibits anti-inflammatory benefit; in epithelial cells and macrophages, manidipine inhibits activation of NF- κ B and production of IL-6 and IL-8.

References Costa S, Zimetti F, Pedrelli M, et al. Manidipine reduces pro-inflammatory cytokines secretion in human endothelial cells and macrophages. *Pharmacol Res.* 2010 Sep;62(3):265-70. PMID: 20347984.

Hayashi K, Ozawa Y, Fujiwara K, et al. Role of actions of calcium antagonists on efferent arterioles--with special references to glomerular hypertension. *Am J Nephrol.* 2003 Jul-Aug;23(4):229-44. PMID: 12840599.

Onuki T. Effects of a calcium channel blocker, manidipine hydrochloride, on the regulatory mechanism of glomerular capillary pressure in SHR. *Nihon Jinzo Gakkai Shi.* 1995 Feb;37(2):119-26. PMID: 7752503.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.