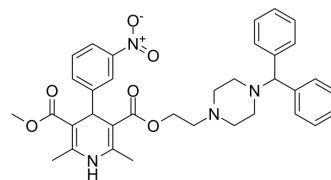


## Manidipine

Cat. No.:	HY-B0419
CAS No.:	89226-50-6
Molecular Formula:	C <sub>35</sub> H <sub>38</sub> N <sub>4</sub> O <sub>6</sub>
Molecular Weight:	610.7
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Manidipine is a calcium channel blocker that is used clinically as an antihypertensive. Target: Calcium Channel. Manidipine is a dihydropyridine calcium antagonist, which causes systemic vasodilation by inhibiting the voltage-dependent calcium inward currents in smooth muscle cells. Manidipine was well tolerated in clinical trials, with most adverse effects related to vasodilation [1]. Manidipine is a lipophilic, third-generation dihydropyridine calcium channel antagonist with a high degree of selectivity for the vasculature, thereby inducing marked peripheral vasodilation with negligible cardiodepression. Manidipine represents a first-line treatment option for patients with essential mild-to-moderate hypertension [2]. Manidipine has neutral effects on glucose and lipid metabolism and is generally well tolerated. Manidipine thus represents a first-line option for lowering BP in patients with mild-to-moderate hypertension [3].

### REFERENCES

- [1]. Cheer, S.M. and K. McClellan, Manidipine: a review of its use in hypertension. *Drugs*, 2001. 61(12): p. 1777-99.
- [2]. McKeage, K. and L.J. Scott, Manidipine: a review of its use in the management of hypertension. *Drugs*, 2004. 64(17): p. 1923-40.
- [3]. Roca-Cusachs, A. and F. Triposkiadis, Antihypertensive effect of manidipine. *Drugs*, 2005. 65 Suppl 2: p. 11-9.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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