

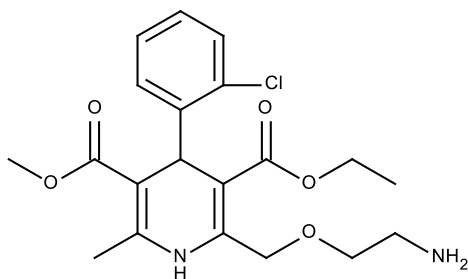


Catalog # 10-1210

Amlodipine

CAS# 88150-42-9

Lot # X102307



Anti-hypertensive L-type calcium channel blocker, which also benefits the cardiovascular system by stimulating nitric oxide synthase, inhibiting angiotension-induced oxidative stress and cardiovascular injury, and inhibiting monocyte/endothelial adhesion. Amlodipine also has a longer duration of action as compared to other similar calcium channel blockers,

- 1) Mason *et al.* (2003), *Novel vascular biology of third-generation L-type calcium channel antagonists: ancillary actions of amlodipine*; *Arterioscler. Thromb. Vasc. Biol.*, **23** 2155
- 2) Asano *et al.* (2003), *A calcium channel blocker activates both ecto-5'(-)-nucleotidase and NO synthase in HUVEC*; *Biochem. Biophys. Res. Commun.*, **311** 625
- 3) Yu *et al.* (2003), *Amlodipine modulates THP-1 cell adhesion to vascular endothelium via inhibition of protein kinase C signal transduction*; *Hypertension*, **42** 329
- 4) Zhou *et al.* (2004), *Inhibition of oxidative stress and improvement of endothelial function by amlodipine in angiotensin II-infused rats*; *Am. J. Hypertension*, **17** 167
- 5) Ueda *et al.* (1993), *A comparative assessment of the duration of action of amlodipine and nifedipine GITS in normotensive subjects*; *Br. J. Clin. Pharmacol.*, **36** 561

PHYSICAL DATA

Molecular Weight:	408.88
Molecular Formula:	C ₂₀ H ₂₅ ClN ₂ O ₅
Purity:	98%
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/mg), DMF (up to 25 mg/ml), ethanol (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO, DMF or ethanol may be stored at -20°C for up to 3 months.

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