

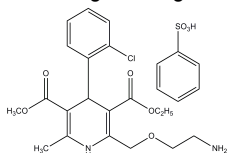
PRODUCT: Amlodipine besylate

ALTERNATE NAME: 2-[(2-Aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylic acid 3-ethyl 5-methyl ester benzenesulfonate

CATALOG #: 2378-50, 250

AMOUNT: 50 mg, 250 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₂₅ClN₂O₅·C₆H₆O₃S

MOLECULAR WEIGHT: 567.05

CAS NUMBER: 111470-99-6

APPEARANCE: White solid

SOLUBILITY: DMSO (~100 mM) or H₂O (~10 mM)

PURITY: ≥98% by HPLC

STORAGE: At +4 C. Protect from light and moisture

DESCRIPTION: A L-type calcium channel blocker and an anti-hypertensive agent. Amlodipine displays vasoprotective effects in cardiovascular disease and inhibits Ca²⁺-induced contractions in depolarized rat aorta (IC₅₀ = 1.9 nM). Amlodipin also inhibits proliferation of human vascular smooth muscle cells and epidermoid carcinoma A431 cells (IC₅₀ = 25 μM).

REFERENCE: Yoshida, J., *et al.* (2003). *Eur. J. Pharmacol.* **472**, 23-31.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

2-APB (Cat. No. 1798-100)

Calcitriol (Cat. No. 1880-50, 250)

Pamidronate disodium (Cat. No. 1884-50, 250)

Thapsigargin (Cat. No. 1558-1)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**