



LKT Laboratories, Inc.

Amlodipine Besylate

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Product Information

Product ID A5044

CAS No. 111470-99-6

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

Synonym Amlodipine Benzenesulfonate, Amlor, Istin, Monopina, Norvasc

Formula C₂₀H₂₅ClN₂O₅ • C₆H₅SO₃H

Formula Wt. 567.06

Melting Point 195-204 °C

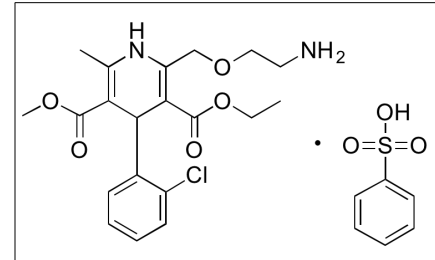
Purity ≥98%

Solubility Slightly soluble in water.
Sparingly soluble in ethanol.
soluble in DMSO(113mg/ml)

Store Temp Ambient

Ship Temp Ambient

Description Amlodipine is a dihydropyridine L-type Ca²⁺ channel blocker that exhibits antihypertensive, anti-anginal, and vasodilatory activities. Amlodipine is clinically used to treat hypertension and angina as it induces relaxation of arterial smooth muscles, decreases blood pressure, and increases blood flow to the heart. Amlodipine also inhibits acid sphingomyelinase (FIASMA), which is involved in programmed cell death. Additionally, this compound improves smooth muscle hypertrophy and collagen deposition, preventing arterial remodeling in hypertensive rats.



Bulk quantities available upon request

Product ID	Size
A5044	1 g
A5044	5 g
A5044	10 g

References Chen JL, Shang QH, Hu W, et al. Role of TGF-β1/Smads pathway in carotid artery remodeling in renovascular hypertensive rats and prevention by Enalapril and Amlodipine. *J Geriatr Cardiol.* 2012 Jun;9(2):185-91. PMID: 22916067.

Kornhuber J, Tripal P, Reichel M, et al. Functional Inhibitors of Acid Sphingomyelinase (FIASMA): a novel pharmacological group of drugs with broad clinical applications. *Cell Physiol Biochem.* 2010;26(1):9-20. PMID: 20502000.

Wang JG. A combined role of calcium channel blockers and angiotensin receptor blockers in stroke prevention. *Vasc Health Risk Manag.* 2009;5:593-605. PMID: 19688100.

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