Data Sheet (Cat.No.T21263)



Amlodipine maleate

Chemical Properties

CAS No.: 88150-47-4

Formula: C24H29ClN2O9

Molecular Weight: 524.95

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Amlodipine maleate (Amvaz) is an orally active dihydropyridine calcium channel blocker that inhibits calcium inward flow by blocking voltage-dependent L-type calcium channels. Amlodipine maleate is used in the study of hypertension and cancer.		
Targets(IC50)	Calcium Channel		
In vitro	Amlodipine maleate (30 μM; pretreated for 1 h) significantly attenuates the uridine 5'-triphosphate (UTP)-induced increases of [Ca2+]i in A431 cells.[4] Amlodipine maleate (20-40 μM; 48 h) reduces BrdU incorporation to 68.6% and 26.3% in A431 cells, respectively.[4] Amlodipine maleate (30 μM) inhibits the store-operated Ca2+influx evoked by Thapsigargin in Fluo-3-loaded cells.[4]		
In vivo	Amlodipine maleate (10 mg/kg; i.p. once daily for 20 days) causes a significant retardation of tumor growth and prolongs the survival of A431 tumor-bearing mice.[4] Amlodipine maleate (5 mg/kg/day; s.c. for 2 weeks) significantly decreases systolic blood pressure (SBP) in VSMC ATP2B1 KO mice.[5]		

Solubility Information

Solubility	DMSO: 108.0 mg/mL (205.7 mM), Sonication is recommended.	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9049 mL	9.5247 mL	19.0494 mL
5 mM	0.381 mL	1.9049 mL	3.8099 mL
10 mM	0.1905 mL	0.9525 mL	1.9049 mL
50 mM	0.0381 mL	0.19 <mark>05 mL</mark>	0.381 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

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Reference

Gottwald-Hostalek U, et al. Management of Hypertension With a Fixed-Dose (Single-Pill) Combination of Bisoprolol and Amlodipine. Clin Pharmacol Drug Dev. 2017 Jan;6(1):9-18.

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