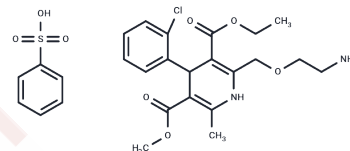


Amlodipine

Chemical Properties

CAS No. :	88150-42-9
Formula:	C ₂₀ H ₂₅ ClN ₂ O ₅
Molecular Weight:	408.88
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Amlodipine (UK-48340) is a synthetic dihydropyridine and a calcium channel blocker with antihypertensive and antianginal properties.
Targets(IC50)	Calcium Channel
In vitro	In large coronary arteries and aorta, Amlodipine increased nitrite production. Intracellularly, Amlodipine caused neuronal Ca ²⁺ elevation by attenuating KCl depolarization.
In vivo	In large coronary arteries and aorta, Amlodipine increased nitrite production. Intracellularly, Amlodipine caused neuronal Ca ²⁺ elevation by attenuating KCl depolarization.

Solubility Information

Solubility	DMSO: 90 mg/mL (220.11 mM),Sonication is recommended. Ethanol: 76 mg/mL (185.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (24.46 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (24.46 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4457 mL	12.2285 mL	24.4571 mL
5 mM	0.4891 mL	2.4457 mL	4.8914 mL
10 mM	0.2446 mL	1.2229 mL	2.4457 mL
50 mM	0.0489 mL	0.2446 mL	0.4891 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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