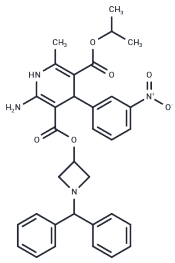
Data Sheet (Cat.No.T0121)

TargetMol

Azelnidipine

Chemical Properties



CAS No. : 123524-52-7

Formula: C33H34N4O6

Molecular Weight: 582.65

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	Azelnidipine (UR-12592) is a dihydropyridine used as calcium channel blocker.
Targets(IC50)	Calcium Channel,MEK
In vivo	Studies indicate that Azelnidipine, as a new-generation calcium channel blocker, can treat hypertension regardless of the patient's risk for ischemic heart disease. This novel, long-acting calcium channel blocker exhibits unique pharmacological properties, such as a slower heart rate and high affinity for vascular tissue, distinguishing it from other calcium channel blockers. Additionally, the high lipophilicity of Azelnidipine allows it to remain active in the vascular wall even after being cleared from the bloodstream.

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 7 mg/mL (12.01 mM),Sonication is recommended. DMSO: 250 mg/mL (429.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (17.16 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (17.16 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7163 mL	8.5815 mL	17.163 mL
5 mM	0.3433 mL	1.7163 mL	3.4326 mL
10 mM	0.1716 mL	0.8581 mL	1.7163 mL
50 mM	0.0343 mL	0.1716 mL	0.3433 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.

Reference

Kuramoto K, et al. Hypertens Res, 2003, 26(3), 201-208.
Pan X, Li R, Guo H, et al. Dihydropyridine Calcium Channel Blockers Suppress the Transcription of PD-L1 by Inhibiting the Activation of STAT1. Frontiers in Pharmacology. 2021 Jan 13;11:539261. doi: 10.3389/fphar.2020.539261. eCollection 2020.
Wang N, et al. Int J Pharm, 2008, 351(1-2), 55-60.
Pan X, Li R, Guo H, et al. Dihydropyridine Calcium Channel Blockers Suppress the Transcription of PD-L1 by Inhibiting the Activation of STAT1[J]. Frontiers in Pharmacology. 2021, 11: 2233.

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