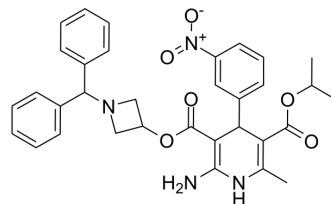


Azelnidipine

Cat. No.:	HY-B0023		
CAS No.:	123524-52-7		
Molecular Formula:	C ₃₃ H ₃₄ N ₄ O ₆		
Molecular Weight:	582.65		
Target:	Calcium Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (171.63 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.7163 mL	8.5815 mL	17.1630 mL
	5 mM	0.3433 mL	1.7163 mL	3.4326 mL
	10 mM	0.1716 mL	0.8581 mL	1.7163 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Azelnidipine (CS 905; Calblock) is a novel dihydropyridine derivative, a L-type calcium channel blocker, and an antihypertensive. IC₅₀ value: Target: L-type calcium channel. Acute administration of azelnidipine prevents a sudden drop of cardiac function after acute stress. Azelnidipine may have a protective role in inflammation associated with atherosclerosis.

CUSTOMER VALIDATION

- Viruses. 2022 Jun 5;14(6):1228.

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REFERENCES

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Caution: Product has not been fully validated for medical applications. For research use only.

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