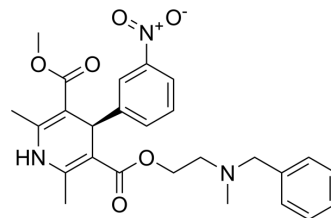


(R)-Nicardipine

Cat. No.:	HY-12515C		
CAS No.:	76093-35-1		
Molecular Formula:	C ₂₆ H ₂₉ N ₃ O ₆		
Molecular Weight:	479.52		
Target:	Calcium Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (417.08 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0854 mL	10.4271 mL	20.8542 mL
	5 mM	0.4171 mL	2.0854 mL	4.1708 mL
	10 mM	0.2085 mL	1.0427 mL	2.0854 mL

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

BIOLOGICAL ACTIVITY

Description

(R)-Nicardipine ((R)-YC-93 free base) is the less active R enantiomer of Nicardipine. Nicardipine (YC-93) is a calcium channel blocker with an IC₅₀ of 1 μM for blocking cardiac calcium channels. Nicardipine acts as an agent for chronic stable angina and for controlling blood pressure^[1].

REFERENCES

[1]. Charnet P, et al. Electrophysiological analysis of the action of nifedipine and nicardipine on myocardial fibers. *Fundam Clin Pharmacol.* 1987;1(6):413-31.

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

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