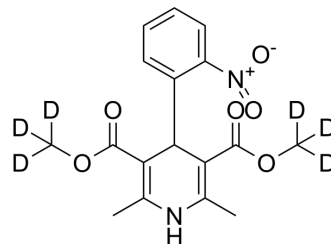


Nifedipine-d₆

Cat. No.:	HY-B0284S		
CAS No.:	1188266-14-9		
Molecular Formula:	C ₁₇ H ₁₂ D ₆ N ₂ O ₆		
Molecular Weight:	352.37		
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 : 100 mg/mL (283.79 mM; Need ultrasonic)
 DMSO : 50 mg/mL (141.90 mM; Need ultrasonic)
 H₂O : 0.1 mg/mL (0.28 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.8379 mL	14.1896 mL	28.3793 mL
	5 mM	0.5676 mL	2.8379 mL	5.6759 mL
	10 mM	0.2838 mL	1.4190 mL	2.8379 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: ≥ 1.25 mg/mL (3.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nifedipine-d₆ is deuterium labeled nifedipine, and nifedipine is a potent calcium channel blocker.

CUSTOMER VALIDATION

- Cell Death Discov. 2021 Feb 10;7(1):31.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Patel DP, et al. Highly sensitive and rapid ultra-performance liquid chromatography-tandem mass spectrometry method for the determination of nifedipine in human plasma and its application to a bioequivalence study. Biomed Chromatogr. 2012 Dec;26(12):1509-

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

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