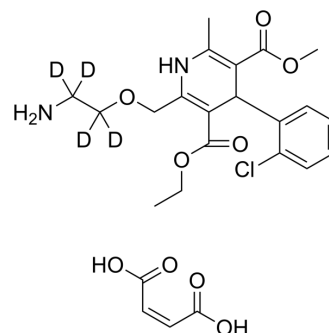


Amlodipine-1,1,2,2-d4 maleate

Cat. No.:	HY-B0317S		
CAS No.:	1185246-15-4		
Molecular Formula:	C ₂₄ H ₂₅ D ₄ ClN ₂ O ₉		
Molecular Weight:	528.97		
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 (189.05 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.8905 mL	9.4523 mL	18.9047 mL	
5 mM	0.3781 mL	1.8905 mL	3.7809 mL	
10 mM	0.1890 mL	0.9452 mL	1.8905 mL	

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

BIOLOGICAL ACTIVITY

Description

Amlodipine-1,1,2,2-d₄ (maleate) is the deuterium labeled Amlodipine. Amlodipine, an antianginal agent and an orally active dihydropyridine calcium channel blocker, works by blocking the voltage-dependent L-type calcium channels, thereby inhibiting the initial influx of calcium. Amlodipine can be used for the research of high blood pressure and cancer^{[1][2][3]}.

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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