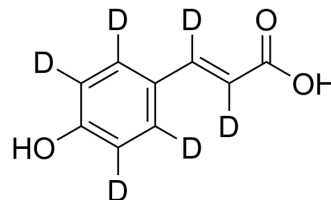


p-Coumaric acid-d₆

Cat. No.:	HY-N0351S1		
CAS No.:	2708298-33-1		
Molecular Formula:	C ₉ H ₂ D ₆ O ₃		
Molecular Weight:	170.19		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
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 (587.58 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.8758 mL	29.3789 mL	58.7579 mL
	5 mM	1.1752 mL	5.8758 mL	11.7516 mL
	10 mM	0.5876 mL	2.9379 mL	5.8758 mL

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

BIOLOGICAL ACTIVITY

Description

p-Coumaric acid-d₆ is the deuterium labeled p-Coumaric acid (HY-N0351). p-Coumaric acid is the abundant isomer of cinnamic acid which has antitumor and anti-mutagenic activities[1][2].

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.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.

[2]. Jaganathan SK, et al. Events associated with apoptotic effect of p-Coumaric acid in HCT-15 colon cancer cells. *World J Gastroenterol*. 2013 Nov 21;19(43):7726-34.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA