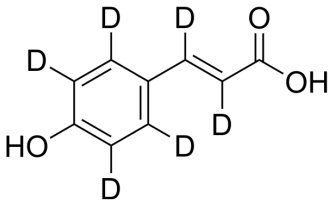
p-Coumaric acid-d_6

Cat. No.:	HY-N0351S1
CAS No.:	2708298-33-1
Molecular Formula:	$C_9H_2D_6O_3$
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)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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-d_6 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.

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