Cinnamic acid-d_6

Cat. No.: HY-N0610AS

CAS No.: 91453-04-2

Molecular Formula: $C_9H_2D_6O_2$

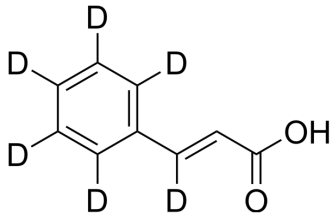
Molecular Weight: 154.2

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 : 250 mg/mL (1621.27 mM; Need ultrasonic)

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Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	6.4851 mL	32.4254 mL	64.8508 mL
5 mM	1.2970 mL	6.4851 mL	12.9702 mL
10 mM	0.6485 mL	3.2425 mL	6.4851 mL

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

BIOLOGICAL ACTIVITY

Description

Cinnamic acid-d_6 is the deuterium labeled Cinnamic acid. Cinnamic acid has potential use in cancer intervention, with IC50s of 1-4.5 mM in glioblastoma, melanoma, prostate and lung carcinoma cells.

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]. Liu L, et al. Cinnamic acid: a natural product with potential use in cancer intervention. Int J Cancer. 1995 Jul 28;62(3):345-50.

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