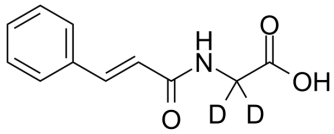
Cinnamoylglycine-d2

Cat. No.:	HY-77641S
CAS No.:	1219806-46-8
Molecular Formula:	$C_{11}H_9D_2NO_3$
Molecular Weight:	207.22
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cinnamoylglycine-d2 is the deuterium labeled Cinnamoylglycine. Cinnamoylglycine is a glycine conjugate of cinnamic acid and a urinary metabolite in human. Cinnamoylglycine is used as a potential urinary biomarker indicating intact or disrupted colonization resistance during and after antibiotic treatment[1].
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]. Obrenovich ME, et al. Targeted Metabolomics Analysis Identifies Intestinal Microbiota-Derived Urinary Biomarkers of Colonization Resistance in Antibiotic-Treated Mice.Antimicrob Agents Chemother. 2017 Jul 25;61(8). pii: e00477-17.

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