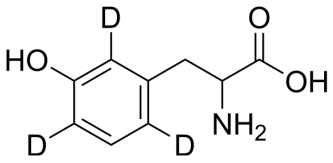
DL-m-Tyrosine-d_3

Cat. No.:	HY-W001940S
Molecular Formula:	$C_9H_8D_3NO_3$
Molecular Weight:	184.21
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DL-m-Tyrosine-d_3 is the deuterium labeled DL-m-Tyrosine. DL-m-Tyrosine shows effects on Arabidopsis root growth. Carbidopa combination with DL-m-tyrosine shows a potent hypotensive effect[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]. Bertin C, et al. Grass roots chemistry: meta-tyrosine, an herbicidal nonprotein amino acid. Proc Natl Acad Sci U S A. 2007 Oct 23;104(43):16964-9.

[3]. Schuster B, et al. The mechanism of action of phenylalanine ammonia-lyase: the role of prosthetic dehydroalanine. Proc Natl Acad Sci U S A. 1995 Aug 29;92(18):8433-7.

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