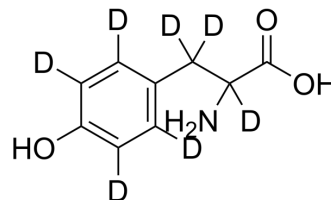


DL-Tyrosine-d7

Cat. No.:	HY-Y0123S1
CAS No.:	402835-78-3
Molecular Formula:	C ₉ H ₄ D ₇ NO ₃
Molecular Weight:	188.23
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DL-Tyrosine-d ₇ is the deuterium labeled DL-Tyrosine. DL-Tyrosine is an aromatic nonessential amino acid synthesized from the essential amino acid phenylalanine. DL-Tyrosine is a precursor for several important neurotransmitters (epinephrine, norepinephrine, dopamine)[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]. ClementeBretti, et al. Some thermodynamic properties of dl-Tyrosine and dl-Tryptophan. Effect of the ionic medium, ionic strength and temperature on the solubility and acid–base properties. Fluid Phase Equilibria.

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

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

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