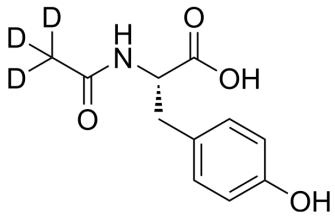
N-Acetyl-L-tyrosine-d_3

Cat. No.:	HY-W012382S
Molecular Formula:	$C_{11}H_{10}D_3NO_4$
Molecular Weight:	226.24
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	N-Acetyl-L-tyrosine-d_3 is the deuterium labeled N-Acetyl-L-tyrosine. N-Acetyl-L-tyrosine originates from tyrosine through an AA acetylase, is associated with aromatic L-amino acid decarboxylase deficiency and tyrosinemia I.
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]. Abdenur JE, et al. Aromatic l-aminoacid decarboxylase deficiency: unusual neonatal presentation and additional findings in organic acid analysis. Mol Genet Metab. 2006 Jan;87(1):48-53.

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