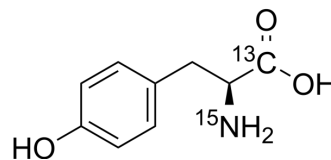


L-Tyrosine-¹³C, ¹⁵N

Cat. No.:	HY-N0473S16
CAS No.:	2483830-06-2
Molecular Formula:	C ₈ ¹³ CH ₁₁ ¹⁵ NO ₃
Molecular Weight:	183.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Tyrosine- ¹³ C, ¹⁵ N is the ¹³ C and ¹⁵ N labeled L-Tyrosine[1]. L-Tyrosine is a non-essential amino acid which can inhibit citrate synthase activity in the posterior cortex[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 Feb;53(2):211-216.
- [2]. Ferreira GK, et al. Effect of L-tyrosine in vitro and in vivo on energy metabolism parameters in brain and liver of young rats. *Neurotox Res*. 2013 May;23(4):327-35.

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

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