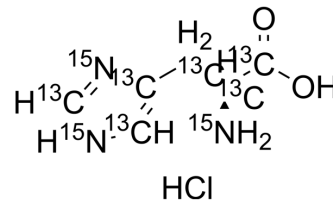


L-Histidine-¹³C₆,¹⁵N₃ hydrochloride

Cat. No.:	HY-N0832S1A
Molecular Formula:	¹³ C ₆ H ₁₀ Cl ¹⁵ N ₃ O ₂
Molecular Weight:	200.55
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Histidine- ¹³ C ₆ , ¹⁵ N ₃ hydrochloride is the ¹³ C and ¹⁵ N labeled L-Histidine (HY-N0832). L-Histidine is an essential amino acid for infants. L-Histidine is an inhibitor of mitochondrial glutamine transport.
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 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Bou Zeidan M, et al. L-histidine inhibits biofilm formation and FLO11-associated phenotypes in *Saccharomyces cerevisiae* flor yeasts. *PLoS One*. 2014 Nov 4;9(11):e112141.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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