

Angiotensin I-¹³C₅,¹⁵N (human, mouse, rat)

Cat. No.:	HY-P1032S1
CAS No.:	3030398-16-1
Molecular Formula:	C ₅₇ ¹³ C ₅ H ₈₉ N ₁₆ ¹⁵ NO ₁₄
Molecular Weight:	1302.43
Sequence Shortening:	DRVY-{Ile-13C5,15N}-HPFHL
Target:	Isotope-Labeled Compounds; Endogenous Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Angiotensin I- ¹³ C ₅ , ¹⁵ N (human, mouse, rat) is the ¹³ C and ¹⁵ N labeled Angiotensin I (human, mouse, rat) (HY-P1032). Citric acid is a natural preservative and food tartness enhancer. Citric acid induces apoptosis and cell cycle arrest at G2/M phase and S phase in HaCaT cells. Citric acid cause oxidative damage of the liver by means of the decrease of antioxidative enzyme activities. Citric acid causes renal toxicity in mice ^[1] .
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.

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

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