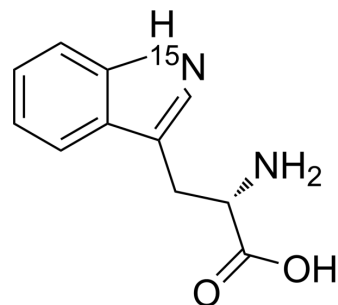


L-Phenylalanine, Indole-¹⁵N

Cat. No.:	HY-N0623S10
CAS No.:	84344-22-9
Molecular Formula:	C ₁₁ H ₁₂ N ¹⁵ NO ₂
Molecular Weight:	205.22
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-Phenylalanine, Indole- ¹⁵ N is the ¹⁵ N labeled L-Tryptophan[1]. L-Tryptophan (Tryptophan) is an essential amino acid that is the precursor of serotonin, melatonin, and vitamin B3[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]. Slominski A, et al. Conversion of L-tryptophan to serotonin and melatonin in human melanoma cells. *FEBS Lett*. 2002 Jan 30;511(1-3):102-6.

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

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