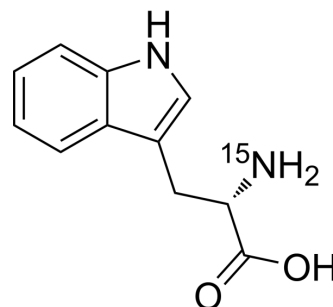


L-Tryptophan-¹⁵N

| | |
|---------------------------|--|
| Cat. No.: | HY-N0623S7 |
| Molecular Formula: | C ₁₁ H ₁₂ N ¹⁵ NO ₂ |
| Molecular Weight: | 205.22 |
| Target: | Endogenous Metabolite; Isotope-Labeled Compounds |
| Pathway: | Metabolic Enzyme/Protease; Others |
| Storage: | 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20 mg/mL (97.46 mM; ultrasonic and warming and heat to 60°C)

| Concentration | Mass | | | |
|---------------|-----------|------------|------------|--|
| | 1 mg | 5 mg | 10 mg | |
| 1 mM | 4.8728 mL | 24.3641 mL | 48.7282 mL | |
| 5 mM | 0.9746 mL | 4.8728 mL | 9.7456 mL | |
| 10 mM | 0.4873 mL | 2.4364 mL | 4.8728 mL | |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L-Tryptophan-¹⁵N is the ¹⁵N-labeled L-Tryptophan. L-Tryptophan (Tryptophan) is an essential amino acid that is the precursor of serotonin, melatonin, and vitamin B3[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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