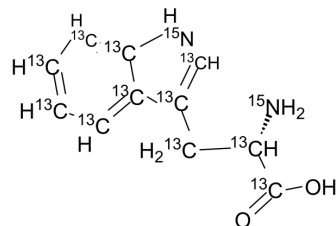


L-Tryptophan-¹³C₁₁,¹⁵N₂

| | |
|---------------------------|--|
| Cat. No.: | HY-N0623S4 |
| CAS No.: | 202406-50-6 |
| Molecular Formula: | ¹³ C ₁₁ H ₁₂ ¹⁵ N ₂ O ₂ |
| Molecular Weight: | 217.13 |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | 4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 7.69 mg/mL (35.42 mM; Need ultrasonic and warming)

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 4.6055 mL | 23.0277 mL | 46.0554 mL |
| | 5 mM | 0.9211 mL | 4.6055 mL | 9.2111 mL |
| | 10 mM | 0.4606 mL | 2.3028 mL | 4.6055 mL |

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

BIOLOGICAL ACTIVITY

Description

L-Tryptophan-¹³C₁₁,¹⁵N₂ is the ¹³C- and 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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