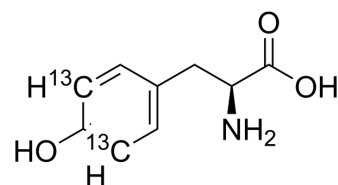


L-Tyrosine-3,5-¹³C₂

Cat. No.:	HY-N0473S6
CAS No.:	70479-98-0
Molecular Formula:	C ₇ ¹³ C ₂ H ₁₁ NO ₃
Molecular Weight:	183.17
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
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

H₂O : 4.81 mg/mL (26.26 mM); ultrasonic and warming and adjust pH to 10 with NaOH and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.4594 mL	27.2970 mL	54.5941 mL
5 mM	1.0919 mL	5.4594 mL	10.9188 mL
10 mM	0.5459 mL	2.7297 mL	5.4594 mL

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

BIOLOGICAL ACTIVITY

Description

L-Tyrosine-3,5-¹³C₂ is the ¹³C-labeled L-Tyrosine. L-Tyrosine is a non-essential amino acid which can inhibit citrate synthase activity in the posterior cortex.

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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