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Produktinformation



Forschungsprodukte & Biochemikalien



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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

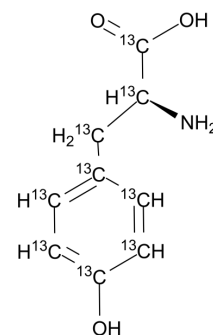
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

L-Tyrosine-¹³C₉

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-N0473S3 | | |
| CAS No.: | 55443-60-2 | | |
| Molecular Formula: | ¹³ C ₉ H ₁₁ NO ₃ | | |
| Molecular Weight: | 190.12 | | |
| Target: | Endogenous Metabolite; Isotope-Labeled Compounds | | |
| Pathway: | Metabolic Enzyme/Protease; Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 66.67 mg/mL (350.67 mM; ultrasonic and adjust pH to 10 with 1M NaOH)

H₂O : 4.85 mg/mL (25.51 mM; ultrasonic and warming and adjust pH to 9 with NaOH and heat to 60°C)

| Preparing Stock Solutions | Solvent | | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|------------|------------|
| | Concentration | Mass | | | |
| | 1 mM | | 5.2598 mL | 26.2992 mL | 52.5984 mL |
| | 5 mM | | 1.0520 mL | 5.2598 mL | 10.5197 mL |
| | 10 mM | | 0.5260 mL | 2.6299 mL | 5.2598 mL |

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

BIOLOGICAL ACTIVITY

Description

L-Tyrosine-¹³C₉ 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA