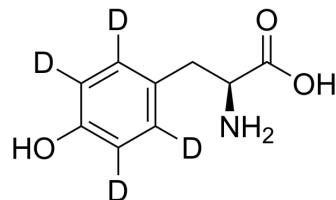


L-Tyrosine-d₄

Cat. No.:	HY-N0473S
CAS No.:	62595-14-6
Molecular Formula:	C ₉ H ₇ D ₄ NO ₃
Molecular Weight:	185.21
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

H₂O : 4.81 mg/mL (25.97 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	5.3993 mL	26.9964 mL	53.9928 mL
5 mM	1.0799 mL	5.3993 mL	10.7986 mL
10 mM	0.5399 mL	2.6996 mL	5.3993 mL

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

BIOLOGICAL ACTIVITY

Description

L-Tyrosine-d₄ is a deuterium labeled L-Tyrosine. L-Tyrosine is a non-essential amino acid which can inhibit citrate synthase activity in the posterior cortex[1].

In Vitro

L-Tyrosine inhibits citrate synthase activity in the posterior cortex (2.0 and 4.0 mM), malate dehydrogenase is not altered by L-Tyrosine and succinate dehydrogenase is increased in the posterior cortex (0.1-4.0 mM), hippocampus (1.0-4.0 mM), striatum (4.0 mM) and liver (0.1-4.0 mM)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ferreira GK, et al. Effect of L-tyrosine in vitro and in vivo on energy metabolism parameters in brain and liver of young rats. Neurotox Res. 2013 May;23(4):327-35.

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