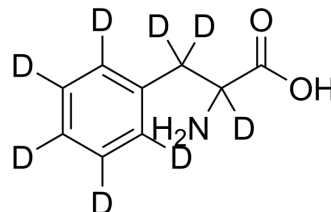


DL-3-Phenylalanine-d₈

Cat. No.:	HY-B1732S2		
CAS No.:	29909-00-0		
Molecular Formula:	C ₉ H ₃ D ₈ NO ₂		
Molecular Weight:	173.24		
Target:	Isotope-Labeled Compounds		
Pathway:	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

H₂O : ≥ 10.42 mg/mL (60.15 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Solvent	1 mg	5 mg	10 mg
	Mass			
Preparing Stock Solutions	1 mM	5.7723 mL	28.8617 mL	57.7234 mL
	5 mM	1.1545 mL	5.7723 mL	11.5447 mL
	10 mM	0.5772 mL	2.8862 mL	5.7723 mL

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

BIOLOGICAL ACTIVITY

Description

DL-3-Phenylalanine-d₈ is the deuterium labeled DL-3-Phenylalanine[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.

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