DL-Phenylalanine-d_5

Cat. No.: HY-N0215S4

CAS No.: 284664-89-7

Molecular Formula: $C_9H_6D_5NO_2$

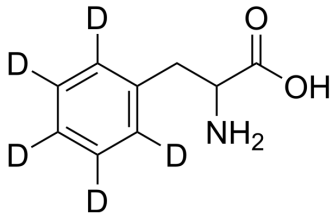
Molecular Weight: 170.22

Target: Calcium Channel; Endogenous Metabolite; iGluR; Isotope-Labeled Compounds

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; 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

H_2O : ≥ 9.26 mg/mL (54.40 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	5.8748 mL	29.3738 mL	58.7475 mL
5 mM	1.1750 mL	5.8748 mL	11.7495 mL
10 mM	0.5875 mL	2.9374 mL	5.8748 mL

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

BIOLOGICAL ACTIVITY

Description

DL-Phenylalanine-d_5 is the deuterium labeled DL-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.

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