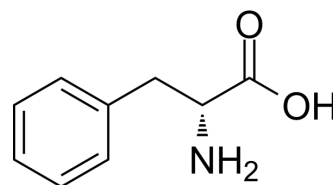


D-Phenylalanine

Cat. No.:	HY-Y0079		
CAS No.:	673-06-3		
Molecular Formula:	C ₉ H ₁₁ NO ₂		
Molecular Weight:	165.19		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 4.17 mg/mL (25.24 mM; Need ultrasonic)
DMSO : 1 mg/mL (6.05 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		6.0536 mL	30.2682 mL	60.5364 mL
	5 mM		1.2107 mL	6.0536 mL	12.1073 mL
	10 mM		0.6054 mL	3.0268 mL	6.0536 mL

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

In Vivo

1. Add each solvent one by one: PBS
Solubility: 2 mg/mL (12.11 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description

D-Phenylalanine is the synthetic dextro isomer of phenylalanine. D-Phenylalanine inhibits biofilm development of *Pseudoalteromonas* sp. SC2014^[1].

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. Li E, et al. D-Phenylalanine inhibits biofilm development of a marine microbe, *Pseudoalteromonas* sp. SC2014. *FEMS Microbiol Lett.* 2016 Sep;363(18).

Caution: Product has not been fully validated for medical applications. For research use only.

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