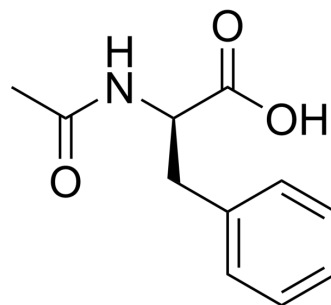


## N-Acetyl-D-phenylalanine

<b>Cat. No.:</b>	HY-W014553		
<b>CAS No.:</b>	10172-89-1		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>13</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	207.23		
<b>Target:</b>	Amino Acid Derivatives		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (482.56 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.8256 mL	24.1278 mL	48.2556 mL
	5 mM	0.9651 mL	4.8256 mL	9.6511 mL
	10 mM	0.4826 mL	2.4128 mL	4.8256 mL

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

### BIOLOGICAL ACTIVITY

#### Description

N-Acetyl-D-phenylalanine is a phenylalanine derivative<sup>[1]</sup>.

#### In Vitro

Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-807.

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

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