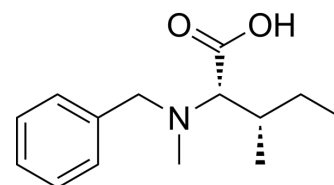


## (2S,3S)-2-(Benzyl(methyl)amino)-3-methylpentanoic acid

<b>Cat. No.:</b>	HY-78907		
<b>CAS No.:</b>	4125-97-7		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>21</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	235.32		
<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 : 10 mg/mL (42.50 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.2495 mL	21.2477 mL	42.4953 mL
	5 mM	0.8499 mL	4.2495 mL	8.4991 mL
	10 mM	0.4250 mL	2.1248 mL	4.2495 mL

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

### BIOLOGICAL ACTIVITY

#### Description

(2S,3S)-2-(Benzyl(methyl)amino)-3-methylpentanoic acid is an isoleucine 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):1793-1144.

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

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