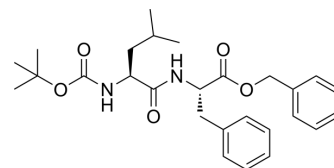


## benzyl (tert-Butoxycarbonyl)-L-leucyl-L-phenylalaninate

<b>Cat. No.:</b>	HY-79861		
<b>CAS No.:</b>	70637-26-2		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>36</sub> N <sub>2</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	468.59		
<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

<b>In Vitro</b>	DMSO : 100 mg/mL (213.41 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.1341 mL	10.6703 mL	21.3406 mL
		5 mM	0.4268 mL	2.1341 mL	4.2681 mL
10 mM		0.2134 mL	1.0670 mL	2.1341 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.34 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	benzyl (tert-Butoxycarbonyl)-L-leucyl-L-phenylalaninate is a phenylalanine derivative <sup>[1]</sup> .
<b>In Vitro</b>	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):1793-863.

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**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](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA