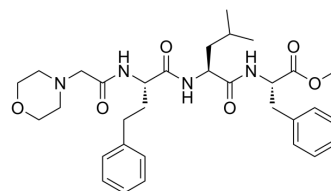


## (S)-methyl 2-((S)-4-methyl-2-((S)-2-(2-morpholinoacetamido)-4-phenylbutanamido)pentanamido)-3-phenylpropanoate

Cat. No.:	HY-I0775		
CAS No.:	1140908-89-9		
Molecular Formula:	C <sub>32</sub> H <sub>44</sub> N <sub>4</sub> O <sub>6</sub>		
Molecular Weight:	580.72		
Target:	Amino Acid Derivatives		
Pathway:	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

DMSO : 100 mg/mL (172.20 mM; Need ultrasonic)

Solvent	Mass Concentration	1 mg	5 mg	10 mg
		1 mM	1.7220 mL	8.6100 mL
	5 mM	0.3444 mL	1.7220 mL	3.4440 mL
	10 mM	0.1722 mL	0.8610 mL	1.7220 mL

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

### BIOLOGICAL ACTIVITY

#### Description

(S)-methyl 2-((S)-4-methyl-2-((S)-2-(2-morpholinoacetamido)-4-phenylbutanamido)pentanamido)-3-phenylpropanoate 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):1793-865.

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

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