(S)-N-Methyl-N-methoxy-2-(tert-butoxycarbonylamino)-4-methylpentanamide

Cat. No.: HY-79417

CAS No.: 87694-50-6

Molecular Formula: $C_{13}H_{26}N_2O_4$

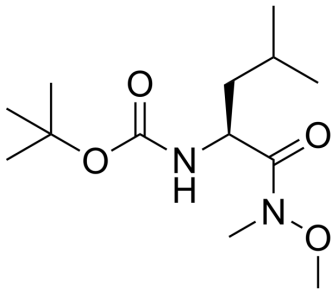
Molecular Weight: 274.36

Target: Amino Acid Derivatives

Pathway: Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (91.12 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6448 mL	18.2242 mL	36.4485 mL
	5 mM	0.7290 mL	3.6448 mL	7.2897 mL
	10 mM	0.3645 mL	1.8224 mL	3.6448 mL

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

BIOLOGICAL ACTIVITY

Description

(S)-N-Methyl-N-methoxy-2-(tert-butoxycarbonylamino)-4-methylpentanamide is a leucine derivative[1].

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[1].

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.

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

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