Product Data Sheet

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(2S)-2-[[(tert-Butoxy)carbonyl](methyl)amino]-3-methylbutanoic acid

HY-41051		
45170-31-8		
C ₁₁ H ₂₁ NO ₄		
231.29		
Amino Acid	Derivativ	ves
Others		
Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	45170-31-8 C ₁₁ H ₂₁ NO ₄ 231.29 Amino Acid Others Pure form	45170-31-8 $C_{11}H_{21}NO_4$ 231.29 Amino Acid Derivativ Others Pure form -20°C 4°C In solvent -80°C

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SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	4.3236 mL	21.6179 mL	43.2358 mL	
		5 mM	0.8647 mL	4.3236 mL	8.6472 mL	
		10 mM	0.4324 mL	2.1618 mL	4.3236 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution					
	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution 					

BIOLOGICAL ACTIVITY					
Description	(2S)-2-[[(tert-Butoxy)carbonyl](methyl)amino]-3-methylbutanoic acid is a valine 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.				

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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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