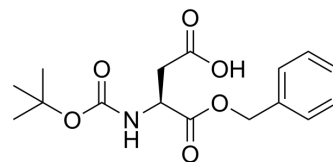


(S)-2-(tert-Butoxycarbonylamino)succinic acid benzyl ester

Cat. No.:	HY-Y0028
CAS No.:	30925-18-9
Molecular Formula:	C ₁₆ H ₂₁ NO ₆
Molecular Weight:	323.34
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	Ethanol : 100 mg/mL (309.27 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	3.0927 mL	15.4636 mL	30.9272 mL
		5 mM	0.6185 mL	3.0927 mL	6.1854 mL
		10 mM	0.3093 mL	1.5464 mL	3.0927 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.73 mM); Clear solution				
	2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.73 mM); Clear solution				
	3. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.73 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(S)-2-(tert-Butoxycarbonylamino)succinic acid benzyl ester is an aspartic acid 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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