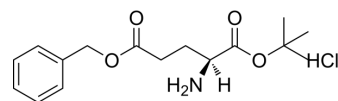


(S)-5-Benzyl 1-tert-butyl 2-aminopentanedioate hydrochloride

Cat. No.:	HY-W006185
CAS No.:	105590-97-4
Molecular Formula:	C ₁₆ H ₂₄ ClNO ₄
Molecular Weight:	329.82
Target:	Amino Acid Derivatives
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (303.20 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.0320 mL	15.1598 mL	30.3196 mL
	5 mM		0.6064 mL	3.0320 mL	6.0639 mL
	10 mM		0.3032 mL	1.5160 mL	3.0320 mL

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

BIOLOGICAL ACTIVITY

Description

(S)-5-Benzyl 1-tert-butyl 2-aminopentanedioate hydrochloride is a glutamic 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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