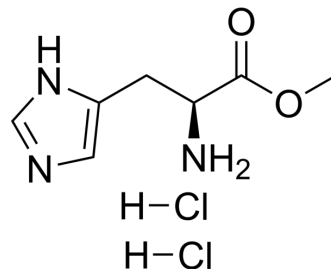


Methyl L-histidinate dihydrochloride

Cat. No.:	HY-Y0754		
CAS No.:	7389-87-9		
Molecular Formula:	C ₇ H ₁₃ Cl ₂ N ₃ O ₂		
Molecular Weight:	242.1		
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

H₂O : 100 mg/mL (413.05 mM; Need ultrasonic)
 DMSO : 7.69 mg/mL (31.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.1305 mL	20.6526 mL	41.3052 mL
	5 mM	0.8261 mL	4.1305 mL	8.2610 mL
	10 mM	0.4131 mL	2.0653 mL	4.1305 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 0.77 mg/mL (3.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 0.77 mg/mL (3.18 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 0.77 mg/mL (3.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methyl L-histidinate dihydrochloride is a histidine 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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