Product Data Sheet

N-(Methoxycarbonyl)-D-valine methyl ester

Cat. No.: HY-79709 CAS No.: 153575-98-5 Molecular Formula: $C_8H_{15}NO_4$ Molecular Weight: 189.21

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: 100 mg/mL (528.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.2851 mL	26.4257 mL	52.8513 mL
	5 mM	1.0570 mL	5.2851 mL	10.5703 mL
	10 mM	0.5285 mL	2.6426 mL	5.2851 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.21 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.5 mg/mL (13.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-(Methoxycarbonyl)-D-valine methyl ester is an amino acid derivative that can be used for compound synthesis^[1].

REFERENCES

[1]. Anantharaj S, et al. Catalysts and temperature driven melt polycondensation reaction for helical poly (ester-urethane) s based on natural L-amino acids. Journal of

Polymer Science Part A: Polymer Chemistry, 2016, 54(8): 1065-1077.		
	Caution: Product has not been fully validated for medical applications. For research use only.	
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