Cyclo(Pro-Val)

Cat. No.: HY-N11615

CAS No.: 5654-87-5

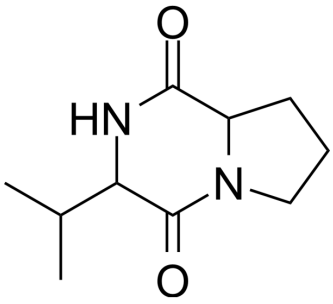
Molecular Formula: $C_{10}H_{16}N_2O_2$

Molecular Weight: 196.25

Target: Others

Pathway: Others

Storage: Sealed storage, away from moisture and light
Powder -80°C 2 years
-20°C 1 year
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (254.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.0955 mL	25.4777 mL	50.9554 mL
	5 mM	1.0191 mL	5.0955 mL	10.1911 mL
	10 mM	0.5096 mL	2.5478 mL	5.0955 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: ≥ 1.25 mg/mL (6.37 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (6.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Cyclo(Pro-Val) can be isolated from Pseudomonas fluorescens GcM5-1A and has cytotoxicity[1].

In Vitro Cyclo(Pro-Val) (10, 20, and 30 μg/ml, 48 h) results in 65%, 73%, and 80% lethality of suspension cells, respectively.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guo Q, et al. Two Cyclic Dipeptides from Pseudomonas fluorescens GcM5-1A Carried by the Pine Wood Nematode and Their Toxicities to Japanese Black Pine Suspension Cells and Seedlings in vitro. J Nematol. 2007 Sep;39(3):243-7.

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