# Cyclo(L-Pro-L-Val)

Cat. No.: HY-P1938	
CAS No.: 2854-40-2	-
Molecular Formula: $C_{10}H_{16}N_2O_2$	
Molecular Weight: 196.25	Ť
Sequence: Cyclo(Pro-Val)	Ń.
Sequence Shortening: Cyclo(PV)	
Target: Bacterial	
Pathway: Anti-infection	
Storage: Sealed storage, away from moisture and light, under nitrogen	
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, under nitrogen)	

# SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solution	1 mM	5.0955 mL	25.4777 mL	50.9554 m
	5 mM	1.0191 mL	5.0955 mL	10.1911 m
	10 mM	0.5096 mL	2.5478 mL	5.0955 ml

# BIOLOGICAL ACTIVITY Description Cyclo(L-Pro-L-Val) is a 2,5-diketopiperazine, with toxic activity against phytopathogenic microorganisms (such as R. fascians LMG 3605). Cyclo(L-Pro-L-Val) shows toxicity similar to Chloramphenicol (HY-B0239) with comparable concentration. Cyclo(L-Pro-L-Val) can also inhibit gram-positive phytopathogenic bacterium. Cyclo(L-Pro-L-Val) has potential development as biopesticide<sup>[1]</sup>.

### REFERENCES

[1]. Cimmino A, et al. Isolation of 2,5-diketopiperazines from Lysobacter capsici AZ78 with activity against Rhodococcus fascians. Nat Prod Res. 2021 Dec;35(23):4969-4977.

**Product** Data Sheet

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## Caution: Product has not been fully validated for medical applications. For research use only.

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