



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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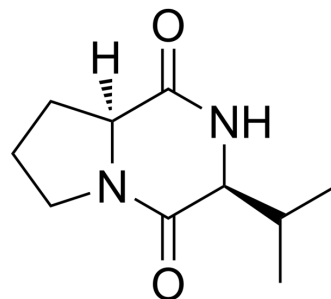
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## Cyclo(L-Pro-L-Val)

<b>Cat. No.:</b>	HY-P1938
<b>CAS No.:</b>	2854-40-2
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	196.25
<b>Sequence:</b>	Cyclo(Pro-Val)
<b>Sequence Shortening:</b>	Cyclo(PV)
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	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

#### In Vitro

DMSO : 100 mg/mL (509.55 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

### 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.

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

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