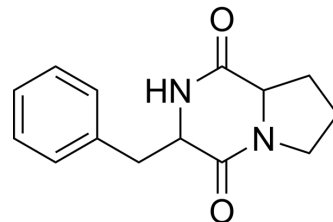


## Cyclo(Phe-Pro)

Cat. No.:	HY-P1934
CAS No.:	14705-60-3
Molecular Formula:	C <sub>14</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	244.29
Sequence Shortening:	Cyclo(FP)
Target:	HCV
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (511.69 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.0935 mL	20.4675 mL	40.9350 mL
	5 mM	0.8187 mL	4.0935 mL	8.1870 mL
	10 mM	0.4093 mL	2.0467 mL	4.0935 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: ≥ 2.08 mg/mL (8.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (8.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (8.51 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Cyclo(Phe-Pro) (Cyclo(phenylalanylprolyl)), a *Vibrio vulnificus* quorum-sensing molecule, inhibits retinoic acid-inducible gene-I (RIG-I) polyubiquitination, through its specific interaction with RIG-I, to blunt IRF-3 activation and type-I IFN production. Cyclo(Phe-Pro) (Cyclo(phenylalanylprolyl)) enhances susceptibility to hepatitis C virus (HCV), as well as Sendai and influenza viruses<sup>[1]</sup>.

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## CUSTOMER VALIDATION

- Mol Ther Oncolytics. 25 August 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Lee W, et al. *Vibrio vulnificus* quorum-sensing molecule cyclo(Phe-Pro) inhibits RIG-I-mediated antiviral innate immunity. *Nat Commun.* 2018 Apr 23;9(1):1606.

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

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