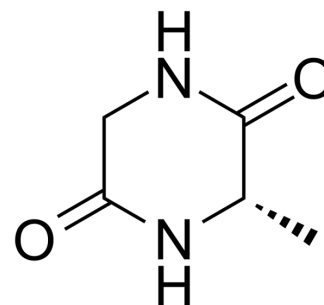


## Cyclo(Ala-Gly)

<b>Cat. No.:</b>	HY-75564		
<b>CAS No.:</b>	4526-77-6		
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	128.13		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (195.11 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.8046 mL	39.0229 mL	78.0457 mL
	5 mM	1.5609 mL	7.8046 mL	15.6091 mL
	10 mM	0.7805 mL	3.9023 mL	7.8046 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: ≥ 2.5 mg/mL (19.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (19.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (19.51 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Cyclo(Ala-Gly), a metabolite of a mangrove endophytic fungus, *Penicillium thomi*, exhibits cytotoxicity against A549, HepG2 and HT29 cells. The IC<sub>50</sub> values range from 9.5 to 18.1 μM<sup>[1]</sup>.

### REFERENCES

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

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