

Cyclo(Pro-Val)

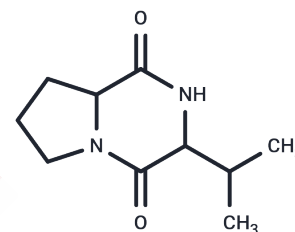
Chemical Properties

CAS No. : 5654-87-5

Formula: C₁₀H₁₆N₂O₂

Molecular Weight: 196.25

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cyclo(Pro-Val) (Cyclo(prolylvalyl)) is obtained from the marine fungus and shows moderate antifungal and weak antitumor activities. Cyclo(Pro-Val) inhibits the growth of <i>Bacillus subtilis</i> with MIC of 0.8 g/L.
Targets(IC50)	Antibacterial, Antifungal

Solubility Information

Solubility	DMSO: 83.3 mg/mL (424.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 8.33 mg/mL (42.45 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (5.1 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1019 mL	0.5096 mL	1.0191 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yao Xinsheng, et al. Cyclic dipeptide constituents from the mangrove fungus *Penicillium oxalicum*(No.092007). *Journal of Shenyang Pharmaceutical University*, 2007,24(8) :474-8.

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