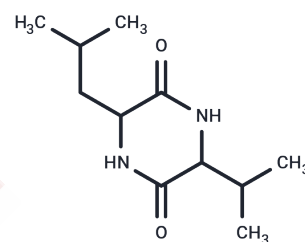


Cyclo(Leu-Val)

Chemical Properties

CAS No. :	5625-50-3
Formula:	C ₁₁ H ₂₀ N ₂ O ₂
Molecular Weight:	212.29
Storage:	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(Leu-Val) is a cyclic dipeptide from the fermentation broth of F8712 strain.
In vitro	To search for bioactive compounds from marine microbes. METHODS AND RESULTS: Pyricularia oryzae was used to screen microbes. Compounds extracted with EtOAc from the fermentation broth of F8712 strain (an active microbe screened out) were separated. The chemical structures of the separated compounds were identified by ¹ H NMR, ¹³ C NMR and ESI-MS techniques. Six cyclic dipeptides, cyclo(Ala-Leu), cyclo(Ala-Ile), cyclo(Ile-Pro), cyclo(Val-Pro), cyclo(Leu-Pro) and Cyclo(Leu-Val), were obtained. CONCLUSIONS: None of the 6 cyclodipeptides has any anti-Pyricularia oryzae activities. Compound V has potent inhibitory effects on Vibrio anguillarum with a minimum inhibitory concentration of 0.07 µg/ml.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7105 mL	23.5527 mL	47.1054 mL
5 mM	0.9421 mL	4.7105 mL	9.4211 mL
10 mM	0.4711 mL	2.3553 mL	4.7105 mL
50 mM	0.0942 mL	0.4711 mL	0.9421 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

Bioactive cyclodipeptides extracted from marine microbes in East China Sea Academic Journal of Second Military Medical University 2006-01

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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