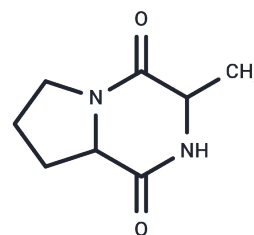


Cyclo(Pro-Ala)

Chemical Properties

CAS No. :	65556-33-4
Formula:	C ₈ H ₁₂ N ₂ O ₂
Molecular Weight:	168.19
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Cyclo(Pro-Ala) is a natural product.
Targets(IC50)	Others
In vitro	To find the cell cycle inhibitors from the metabolites of Streptomyces flavoretus 18522. METHODS AND RESULTS: Activity-guided isolation was performed on the chloroform extract of the fermentation broth and mycelia of Streptomyces flavoretus 18522 by using ts FT210 cells. Compounds were isolated through various chromatographic methods and elucidated by spectroscopic means. The flow cytometry was used to evaluate the cell cycle inhibiting activity of the fractions and compounds. Six cyclic dipeptides were obtained and identified as cyclo(Ala-Leu)(1), cyclo(Ala-Ile)(2), cyclo(Ala-Val)(3), cyclo(Phe-Leu)(4), Cyclo(Pro-Ala)(5) and cyclo(Phe-Val)(6). CONCLUSIONS: Compounds 1-6 are reported as new cell cycle inhibitors for the first time.

Solubility Information

Solubility	DMSO: 11 mg/mL (65.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9457 mL	29.7283 mL	59.4566 mL
5 mM	1.1891 mL	5.9457 mL	11.8913 mL
10 mM	0.5946 mL	2.9728 mL	5.9457 mL
50 mM	0.1189 mL	0.5946 mL	1.1891 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

Cyclic dipeptides as new cell cycle inhibitors produced by *Streptomyces flavoretus* Journal of Shenyang Pharmaceutical University, 2015(2):107 -10.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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