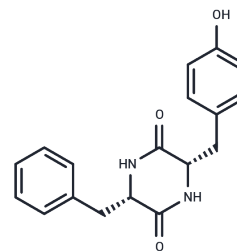


Cyclo(Tyr-Phe)

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 5147-17-1 |
| Formula: | C ₁₈ H ₁₈ N ₂ O ₃ |
| Molecular Weight: | 310.353 |
| Storage: | Keep away from direct sunlight, Keep away from moisture 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-(Phe-Tyr) shows anticoagulant activities. |
| In vitro | To study the in vitro anticoagulant activity of cyclodipeptide(cyclo-(Tyr-Leu),cyclo-(PhePhe) and cyclo-(Phe-Tyr)) isolated from Sparganium stoloniferum Buch.-Ham. METHODS AND RESULTS:The special kits were used to measure anticoagulant activity with platelet poor plasma collected from abdominal aorta of male SD rats,including prothrombin time(PT),activated partial thromboplastin time(APTT) and thrombin time (TT).PT,APTT,TT were prolonged by the addition of cyclo-(Tyr-Leu),cyclo-(Phe-Phe) and Cyclo(Tyr-Phe). The former two presented no dose-effect relationship but the latter did. CONCLUSIONS:Of three cyclodipeptides from S. stoloniferum,all the three show anticoagulant activities with cyclo-(Phe-Tyr) being by far the most effective. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.2222 mL | 16.1108 mL | 32.2217 mL |
| 5 mM | 0.6444 mL | 3.2222 mL | 6.4443 mL |
| 10 mM | 0.3222 mL | 1.6111 mL | 3.2222 mL |
| 50 mM | 0.0644 mL | 0.3222 mL | 0.6444 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

Anticoagulant activity of cyclic dipeptides from Sparganii Rhizome Chinese Traditional Patent Medicine, 2015,37 (1): 34-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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