Natural Products

ChemFaces

Cyclo(Phe-Pro) Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Cyclo(Phe-Pro)

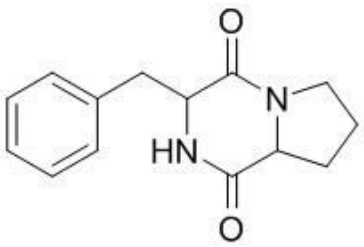
Catalog No.: CFN90271

Cas No.: 14705-60-3

Purity: >=98%

M.F: $C_{14}H_{16}N_2O_2$

M.W: 244.29



Physical Description: Powder

Synonyms: Pyrrolo[1,2-a]pyrazine-1,4-dione,hexahydro-3-(phenylmethyl)-.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

From *Pantoea agglomerans.*

[Biological Activity or Inhibitors]

Cyclo(Phe-Pro) can inhibit cancer cell growth and induce apoptosis in HT-29 colon.[1]

Cyclo(L-Phe-L-Pro) is a signal molecule controlling the expression of genes important for the pathogenicity of Vibrio spp.[2]

Cyclo(Phe-Pro) produced by V. vulnificus actively suppresses the innate immune responses of the host, thereby facilitating its survival and propagation in the host environment.[3]

Cyclo(Phe-Pro) shows weak cytotoxicity in vitro against HCT-8, Bel-7402, BGC-823, A2780 cell lines.[4]

Cyclo(Phe-Pro) shows broad spectrum antibacterial properties.[5]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method][6]

Mobile phase: Methanol - H2O,gradient elution;

Flow rate: 0.8 ml/min;

Column temperature: 30℃;

The wave length of determination:254 nm.

[Storage]

2-8℃, Protected from air and light, refrigerate or freeze.

[References]

[1] Brauns S C, Dealtry G, Milne P, *et al. Anticancer Res.,2005 Nov-Dec;25(6B):4197-202.*

[2] Park D K, Lee KEBaek C H, Kim I H, *et al. J. Bacteriol.,2006 Mar;188(6):2214-21.*

[3] Kim K, Kim N J, Kim S Y, *et al. Infect. Immun.,2015 Mar;83(3):1150-61.*

[4] Shen Y, Zou J, Xie D, *et al. Chem. Pharm. Bull.(Tokyo), 2012;60(11):1437-41.*

[5] Graz M, Hunt A, Jamie H, *et al. Die Pharmazie,1999,54(10):772-5.*

[6] Li H F, Ye Y H, Guo J H. *Jiangsu Agricultural Sciences,2010(2):107-9.*

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