

Cyclo(Pro-Val) Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Cyclo(Pro-Val)

Catalog No.: CFN90275

Cas No.: 5654-87-5

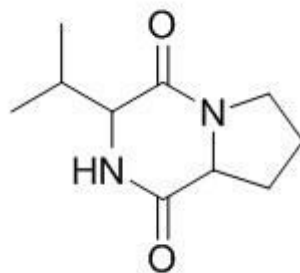
Purity: >=98%

M.F: C₁₀H₁₆N₂O₂

M.W: 196.25

Physical Description: Powder

Synonyms: 3-Propan-2-yl-2,3,6,7,8,8a-hexahydropyrrolo[1,2-a]pyrazine-1,4-dione; Diketo piperazin-Pro-Val.



[Intended Use]

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

[Source]

From *Penicillium oxalicum*.

[Biological Activity or Inhibitors]

Cyclo(Pro-Val) shows cytotoxic activity in vitro.^[1]

Cyclo(Pro-Val) shows moderate antifungal and weak antitumor activities in vitro.^[2]

Cyclo(Pro-Val) and cyclo(Pro-Tyr) are toxic to both suspension cells and seedlings of *Pinus thunbergii*, which may offer some clues to research the mechanism of pine wilt disease caused by pine wood nematode.^[3]

Cyclo (Pro-Val) and cyclo (Pro-Gly) can inhibit the growth of *Bacillus subtilis* with the minimal inhibitory concentration (MIC) value of 0.8, 0.8 g/L respectively, while they show no apparent effects against the growth of Gram-negative bacteria.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol -H₂O, gradient elution;

Flow rate: 3.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Liu H B, Gao H, Wang N L, *et al. Journal of Shenyang Pharmaceutical University*, 2007, 24(8) :474-8.

[2] Yang L, Tan R X, Wang Q, *et al. Tetrahedron Lett.*, 2002, 33(51):6545-8.

[3] Guo Q, Guo D, Zhao B, *et al. J. Nematol.*, 2007 Sep;39(3):243-7.

[4] Tian F, He R F, Li M Y, *et al. Microbiology China*, 2010, 37(10):1475-80.

[5] Wang L, Hu S Z, Liu C X, *et al. Chemical Research and Application*,2014(9):1478-82.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com