

## Cyclo(Pro-Gly) Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Cyclo(Pro-Gly)

**Catalog No.:** CFN90272

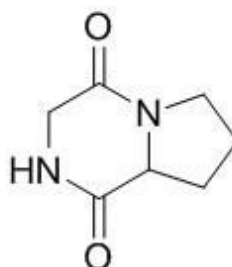
**Cas No.:** 19179-12-5

**Purity:** >=98%

**M.F:** C<sub>7</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>

**M.W:** 154.17

**Physical Description:** Powder



**Synonyms:** Hexahydropyrrolo[1,2-A]pyrazine-1,4-dione; Pyrrolo[1,2-a]pyrazine-1,4-dione, hexahydro- (6Cl,7Cl,8Cl,9Cl); Cyclo-glycyl-L-proline.

### [ Intended Use ]

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

### [ Source ]

From *Penicillium oxalicum*.

### [ Biological Activity or Inhibitors ]

Cyclo (Pro-Gly) and cyclo (Pro-Val) 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.<sup>[1]</sup>

Cyclo(Pro-Gly) is an active metabolite of piracetam-N-phenylacetyl-L-prolylglycine (GWS-111), it shows a greater resistance to an enzymatic effect than natural neuropeptides.<sup>[2]</sup>

Cyclo-(Gly-Pro) shows cytotoxicity at the concentration of 10 umol/L.<sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]**

Not data available.

## **[ Storage ]**

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

## **[ References ]**

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

[2] Boško SS, Zherdev VP, Dvorianinov AA, *et al. Eksp. Klin. Farmakol.*, 1997 Mar-Apr; 60(2):53-5.

[3] Liu R, Zhu T J, Zhu W M, *et al. Chinese Journal of Antibiotics*, 2006, 31(1):36-38,62.

## **[ Contact ]**

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