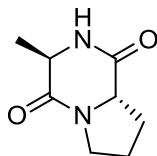


## Cyclo(D-Ala-L-Pro)

Code No.: **BIA-C1713**

Pack sizes: **5 mg, 25 mg**



Synonyms : (3R,8aS)-Hexahydro-3-methylpyrrolo[1,2-a]pyrazine-1,4-dione; Cyclo(L-prolyl-D-alanyl)

### Specifications

CAS #	: 36238-64-9
Molecular Formula	: C <sub>8</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight	: 168.2
Source	: <i>Penicillium</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

### Application Notes

Cyclo(D-Ala-L-Pro) is an unusual D-amino acid-containing diketopiperazine metabolite reported as a fermentation product from *Penicillium terrestre*, an endolichenous *Colpoma* sp. and a marine sponge extract. In all cases, cyclo(D-Ala-L-Pro) was found co-produced with L-amino acid-containing diketopiperazines. No biological activity has been reported, although cyclo(D-Ala-L-Pro) appears in several recent patents covering a diverse range of diketopiperazines with broad therapeutic claims.

### References

1. A new 1,4-diazepine from South China Sea marine sponge *Callyspongia* species. Huang R-M. et al., *Molecules* 2010, 15, 871.
2. Secondary metabolites from marine derived fungus *Penicillium terrestre*. Liu H. et al., *J. Chin. Pharm. Sci.* 2010, 19, 482.
3. Diketopiperazines from Costa Rican endolichenic fungus *Colpoma* sp. CR1465A Lee S. et al., *Bioorg. Med. Chem. Lett.* 2016, 26, 2438.