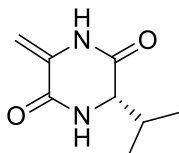


cyclo(Δ -Ala-L-Val)

Code No.: **BIA-C1361**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 25516-00-1
Molecular Formula	: C₈H₁₂N₂O₂
Molecular Weight	: 168.1
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Cyclo(Δ -Ala-L-Val) is a diketopiperazine formed by the fusion of Δ -alanine and valine, reported as a secondary metabolite of fungi and bacteria. In *Pseudomonas aeruginosa*, cyclo(Δ -Ala-L-Val) is capable of activating N-acylhomoserine lactones (AHLs). Cyclo(Δ -Ala-L-Val) is also capable of activating or antagonizing other LuxR-based quorum-sensing systems. While the mode of action of cyclo(Δ -Ala-L-Val) is not known, its activity suggests the existence of cross talk among bacterial signalling systems.

References

1. Quorum-sensing cross talk: isolation and chemical characterization of cyclic dipeptides from *Pseudomonas aeruginosa* and other Gram-negative bacteria. Holden M.T.G. et al., Mol. Microbiol. 1999, 33, 1254.