

<b>Product Name:</b>	cyclo(Delta-Ala-L-Val)
<b>Product Number:</b>	C220
<b>CAS Number:</b>	25516-00-1
<b>Molecular Formula:</b>	$C_8H_{12}N_2O_2$
<b>Molecular Weight:</b>	168.1
<b>Description:</b>	<p>Cyclo(<math>\Delta</math>-Ala-L-Val) is a diketopiperazine formed by the fusion of <math>\Delta</math>-alanine and valine, reported as a secondary metabolite of fungi and bacteria. In <i>Pseudomonas aeruginosa</i>, cyclo(<math>\Delta</math>-Ala-L-Val) is capable of activating N-acylhomoserine lactones (AHLs). Cyclo(<math>\Delta</math>-Ala-L-Val) is also capable of activating or antagonizing other LuxR-based quorum-sensing systems.</p> <p>Cyclo(<math>\Delta</math>-Ala-L-Val) is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility</p>
<b>Mechanism of Action:</b>	While the mode of action of cyclo( $\Delta$ -Ala-L-Val) is not known, its activity suggests the existence of cross talk among bacterial signalling systems.
<b>References:</b>	Quorum-sensing cross talk: isolation and chemical characterization of cyclic dipeptides from <i>Pseudomonas aeruginosa</i> and other Gram-negative bacteria. Holden M.T.G. et al. Mol. Microbiol. 1999, 33, 1254.