Data Sheet (Cat.No.T75509)



Pulcherriminic acid

Chemical Properties

CAS No.: 957-86-8

Formula: C12H20N2O4

Molecular Weight: 256.3

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Pulcherriminic acid, a cyclic dipeptide antimicrobial compound predominantly found in
	Bacillus and yeast, exhibits a strong affinity for Fe3+. It chelates iron ions via a non-
	enzymatic reaction, forming the extracellular red pigment pulcherrimin. This pigment
	competes for iron nutrition, thereby exerting an antibacterial effect. Pulcherriminic acid
	holds significant potential for applications in the food, agriculture, and medical
	industries [1] [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9017 mL	19.5084 mL	39.0168 mL
5 mM	0.7803 mL	3.9017 mL	7.8034 mL
10 mM	0.3902 mL	1.9508 mL	3.9017 mL
50 mM	0.078 mL	0.3902 mL	0.7803 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

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