

Quorum sensing-IN-9

Chemical Properties

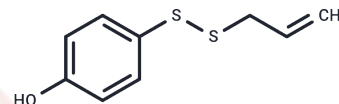
CAS No. : 3063543-24-5

Formula: C₉H₁₀O₂S

Molecular Weight: 198.305

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Quorum sensing-IN-9 (Compound 7d) inhibits quorum sensing in <i>Pseudomonas aeruginosa</i> by binding to the PqsR protein. It suppresses the expression of quorum sensing system-related genes <i>lasB</i> , <i>rhIA</i> , and <i>pqsA</i> , thereby preventing the production of virulence factors elastase, pyocyanin, and rhamnolipid. Quorum sensing-IN-9 disrupts the motility of <i>P. aeruginosa</i> , inhibits biofilm formation, and reduces the bacterium's virulence and pathogenicity. Additionally, it exhibits anti-infective activity in the <i>Galleria mellonella</i> larval model.
Targets(IC50)	Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0426 mL	25.2131 mL	50.4261 mL
5 mM	1.0085 mL	5.0426 mL	10.0852 mL
10 mM	0.5043 mL	2.5213 mL	5.0426 mL
50 mM	0.1009 mL	0.5043 mL	1.0085 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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