

PqsR-IN-1

Chemical Properties

CAS No. :

Formula: C₁₇H₁₈ClN₃O₅

Molecular Weight: 347.86

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	PqsR-IN-1 (Compound 18) is a potent inhibitor of PqsR, a transcriptional regulator in the quorum sensing mechanism of <i>Pseudomonas aeruginosa</i> , that effectively reduces pyocyanin production and exhibits minimal cytotoxicity [1].
Targets(IC50)	Others,Antibacterial
In vitro	PqsR-IN-1 (Compound 18) effectively inhibits the pqs system in <i>Pseudomonas aeruginosa</i> , with IC ₅₀ values of 313 ± 156.2 nM and 342 ± 39.4 nM against PAO1-L and PA14 strains, respectively [1]. At triple the IC ₅₀ value, it reduces pyocyanin production to 23% in the PAO1-L strain compared to a 0.1% DMSO control [1]. Moreover, PqsR-IN-1 exhibits minimal toxicity towards A549 lung epithelial cells, showing no significant adverse effects at concentrations ranging from 0-100 μM after 16 hours of exposure [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8747 mL	14.3736 mL	28.7472 mL
5 mM	0.5749 mL	2.8747 mL	5.7494 mL
10 mM	0.2875 mL	1.4374 mL	2.8747 mL
50 mM	0.0575 mL	0.2875 mL	0.5749 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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