

PqsR-IN-2

Chemical Properties

CAS No. :

Formula: C₁₈H₂₀ClN₃O₅

Molecular Weight: 361.89

Appearance: no data available

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

Biological Description

Description	PqsR-IN-2 (Compound 19) is a highly potent inhibitor of PqsR, the transcriptional regulator responsible for quorum sensing in <i>Pseudomonas aeruginosa</i> . It effectively suppresses pyocyanin production without causing significant cytotoxicity, making it a promising compound for therapeutic applications [1].
In vitro	PqsR-IN-2 (Compound 19) effectively inhibits the pqs system in <i>Pseudomonas aeruginosa</i> , with IC ₅₀ values of 298 ± 182.0 nM and 265 ± 3.4 nM against PAO1-L and PA14 strains, respectively [1]. Additionally, it significantly reduces pyocyanin production in the PAO1-L strain to 36% at a concentration 3× the IC ₅₀ value, in comparison to a 0.1% DMSO control [1]. Importantly, PqsR-IN-2 demonstrates negligible toxicity towards A549 lung epithelial cells over a range of concentrations (0-100 µM) after 16 hours of exposure, as evidenced in a cell cytotoxicity assay [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7633 mL	13.8164 mL	27.6327 mL
5 mM	0.5527 mL	2.7633 mL	5.5265 mL
10 mM	0.2763 mL	1.3816 mL	2.7633 mL
50 mM	0.0553 mL	0.2763 mL	0.5527 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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