

## PqsR-IN-2

## Chemical Properties

CAS No. :

Formula: C<sub>18</sub>H<sub>20</sub>ClN<sub>3</sub>O<sub>5</sub>

Molecular Weight: 361.89

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-2 (Compound 19) is a highly potent inhibitor of PqsR, the transcriptional regulator of quorum sensing in <i>Pseudomonas aeruginosa</i> . It efficiently suppresses pyocyanin production without significant cytotoxicity, making it a promising candidate for therapeutic applications [1].
Targets(IC50)	Others,Antibacterial
In vitro	PqsR-IN-2 (Compound 19) effectively inhibits the pqs system in <i>Pseudomonas aeruginosa</i> , with IC <sub>50</sub> values of 298 ± 182.0 nM and 265 ± 3.4 nM against PAO1-L and PA14 strains, respectively [1]. It also significantly reduces pyocyanin production in the PAO1-L strain to 36% at 3× IC <sub>50</sub> concentration, compared to a 0.1% DMSO control [1]. Importantly, PqsR-IN-2 shows negligible toxicity towards A549 lung epithelial cells across concentrations (0-100 μM) after 16 hours of exposure, as demonstrated 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.

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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481