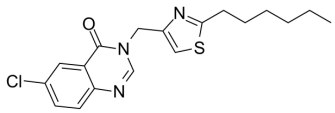
PqsR-IN-2

Cat. No.:	HY-146706
CAS No.:	2982271-63-4
Molecular Formula:	$C_{18}H_{20}ClN_3OS$
Molecular Weight:	361.89
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PqsR-IN-2 (Compound 19) is a potent PqsR (Pseudomonas aeruginosa quorum sensing transcriptional regulator) inhibitor. PqsR-IN-1 attenuates pyocyanin production and has very low cytotoxicity[1].
IC_{50} & Target	PqsR[1]
In Vitro	PqsR-IN-2 (Compound 19) inhibits pqs system with IC_{50} values of 298 ± 182.0 nM and 265 ± 3.4 nM against two different PA strains PAO1-L and PA14, respectively[1]. PqsR-IN-2 significantly reduces pyocyanin production to 36% against a control of 0.1% DMSO at 3 × the IC_{50} value in P. aeruginosa strain PAO1-L[1]. PqsR-IN-2 (0-100 μM, 16 h) shows no significant toxicity to A549 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	A549 lung epithelial cells
Concentration:	0.1, 1, 12.5, 25, 50, and 100 μM
Incubation Time:	16 h
Result:	Showed no significant toxicity.

REFERENCES

[1]. Scott Grossman, et al. Novel quinazolinone inhibitors of the Pseudomonas aeruginosa quorum sensing transcriptional regulator PqsR. Eur J Med Chem. 2020 Dec 15;208:112778.

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