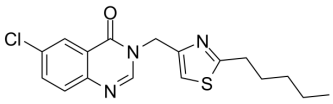
PqsR-IN-1

Cat. No.:	HY-146705
CAS No.:	1333636-58-0
Molecular Formula:	$C_{17}H_{18}ClN_3OS$
Molecular Weight:	347.86
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PqsR-IN-1 (Compound 18) 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-1 (Compound 18) inhibits pqs system with IC_{50} values of 313 ± 156.2 nM and 342 ± 39.4 nM against two different PA strains PAO1-L and PA14, respectively[1]. PqsR-IN-1 significantly reduces pyocyanin production to 23% against a control of 0.1% DMSO at 3 × the IC_{50} value in P. aeruginosa strain PAO1-L[1]. PqsR-IN-1 (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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