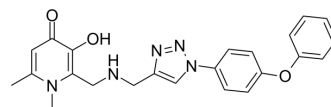


PqsR-IN-3

Cat. No.:	HY-155479
CAS No.:	3033007-79-0
Molecular Formula:	C ₂₃ H ₂₃ N ₅ O ₃
Molecular Weight:	417.46
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PqsR-IN-3 (compound 16e) is a selective inhibitor of the pqs system (IC ₅₀ =3.7 μM) and its associated virulence factor pyocyanin (IC ₅₀ =2.7 μM). PqsR-IN-3 inhibits bacterial biofilm synthesis and is significantly cytotoxic against <i>Pseudomonas aeruginosa</i> . PqsR-IN-3 has synergistic effects with several antibiotics, such as Ciprofloxacin (HY-B0356) and Tobramycin (HY-B0441) ^[1] .
IC ₅₀ & Target	IC ₅₀ : 3.7 μM (pqs system); 2.7 μM (related virulence factor pyocyanin) ^[1]

REFERENCES

[1]. Miao ZY et al. 3-Hydroxypyridin-4(1H)-one Derivatives as pqs Quorum Sensing Inhibitors Attenuate Virulence and Reduce Antibiotic Resistance in *Pseudomonas aeruginosa*. J Med Chem. 2023 Nov 18.

Caution: Product has not been fully validated for medical applications. For research use only.

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