Product Data Sheet

LasR-IN-2

Cat. No.: HY-151164 CAS No.: 3033530-61-6 Molecular Formula: $C_{21}H_{16}ClN_3O_2$

Molecular Weight: 377.82

Target: Bacterial

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

HN-C

BIOLOGICAL ACTIVITY

Description	LasR-IN-2 is a LasR inhibitor that forms H-bonding with TRY-56 residue. LasR-IN-2 can be used in the research of bacterial infection, neutropenia, severe burns and chronic lung disease in cystic fibrosis (CF) ^[1] .	
IC ₅₀ & Target	$LasR^{[1]}$	
In Vitro	LasR-IN-2 (Compound 8a, 4.68-150 μ g/mL, 24 h) inhibits P. aeruginosa growth ^[1] . LasR-IN-2 (18.5 μ M, 24 h) inhibits biofilm formation, pyocyanin production, and rhamnolipids production ^[1] . LasR-IN-2 (24 h) inhibits human dermal fibroblasts (HDFa) growth with an IC ₅₀ value of 102 μ M ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]	
	Cell Line:	P. aeruginosa (ATCC27853)
	Concentration:	4.68-150 μg/mL
	Incubation Time:	24 h
	Result:	Inhibited bacterial growth with a MIC value of 74.40 μM.

REFERENCES

[1]. Rehab H Abd El-Aleam, et al. Design and synthesis of novel benzimidazole derivatives as potential Pseudomonas aeruginosa anti-biofilm agents inhibiting LasR: Evidence from comprehensive molecular dynamics simulation and in vitro investigation. Eur J Med Chem. 2022 Aug 5;241:114629.

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

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