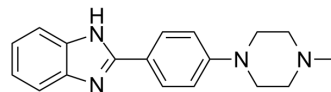


LasR-IN-4

Cat. No.:	HY-151167
CAS No.:	183488-96-2
Molecular Formula:	C ₁₈ H ₂₀ N ₄
Molecular Weight:	292.38
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LasR-IN-4 is a potent LasR inhibitor. LasR-IN-4 can inhibit <i>Pseudomonas aeruginosa</i> and its biofilm formation, pyocyanin production, and rhamnolipids production ^[1] .
IC ₅₀ & Target	MIC: 56.25 µg/mL (<i>P. aeruginosa</i>) ^[1]
In Vitro	LasR-IN-4 (compound 3d) has inhibitory activity against <i>P. aeruginosa</i> with MIC of 56.25 µg/mL, and inhibits biofilm formation, pyocyanin production, and rhamnolipids production of 71.70%, 68.70% and 54.00%, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Abd El-Aleam RH, 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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