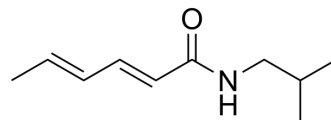


Antibacterial agent 210

Cat. No.:	HY-163508
Molecular Formula:	C ₁₀ H ₁₇ NO
Molecular Weight:	167.25
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 210 (compound A9), an amide derivative, is a <i>Pseudomonas aeruginosa</i> quorum sensing inhibitor (QSI). Antibacterial agent 210 inhibits the quorum sensing systems by binding with LasR and PqsR, especially PqsR ^[1] .
In Vitro	Antibacterial agent 210 (compound A9; 160 µg/mL) inhibits the virulence factors of <i>P. aeruginosa</i> . Antibacterial agent 210 significantly reduces the production of PAO1 biofilms. Antibacterial agent 210 inhibits the swarming motility of <i>P. aeruginosa</i> . Antibacterial agent 210 also inhibits the expression of genes related to the QS systems in <i>P. aeruginosa</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhe He, et al. Discovery of novel amide derivatives as potent quorum sensing inhibitors of *Pseudomonas aeruginosa*. *Eur J Med Chem.* 2024 Apr 13;271:116410.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA