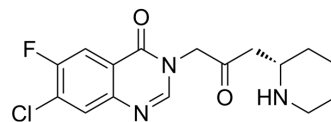


Antibacterial agent 124

Cat. No.:	HY-151880
CAS No.:	2304448-00-6
Molecular Formula:	C ₁₆ H ₁₇ ClFN ₃ O ₂
Molecular Weight:	337.78
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 124 (Compound 3) is a potent bacterial prolyl-tRNA synthetase (ProRS) inhibitor with an IC ₅₀ of 0.18 μM against <i>Staphylococcus aureus</i> ProRS (SaProRS) ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.18 μM (SaProRS) ^[1] Kd: 30.3 nM (SaProRS) ^[1]
In Vitro	Antibacterial agent 124 (Compound 3) shows antibacterial activity with MICs of 1, 1, 4, 1, 1, 2 and 4 μg/mL against <i>E. coli</i> (ATCC25922), <i>S. flexneri</i> (CMCC51572), <i>S. typhi</i> (CMCC50094), MRSA252, MRSA R3708, <i>S. aureus</i> ATCC29213, <i>S. aureus</i> ATCC25923, respectively. And the CC ₅₀ to HepG2 is 4.32 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cheng B, et al. Structure-Guided Design of Halofuginone Derivatives as ATP-Aided Inhibitors Against Bacterial Prolyl-tRNA Synthetase. *J Med Chem.* 2022 Nov 17.

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

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