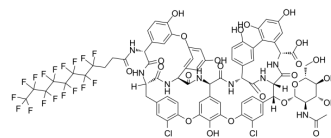


Antimicrobial agent-11

Cat. No.:	HY-151501
Molecular Formula:	C ₇₇ H ₆₁ Cl ₂ F ₁₇ N ₈ O ₂₄
Molecular Weight:	1876.23
Target:	Bacterial; SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antimicrobial agent-11 is a SARS-CoV-2 inhibitor with antibacterial activity ^[1] .								
IC₅₀ & Target	Bacteria, SARS-CoV-2 ^[1]								
In Vitro	<p>Antimicrobial agent-11 (compound 5) shows inhibitory activity on coronavirus (SARS-CoV-2) replication and spike-mediated pseudovirus entry in Vero E6 cells and Calu-3 cells, with EC₅₀ values of 24 μM, 57 μM^[1].</p> <p>Antimicrobial agent-11 inhibits Cathepsin L, 3CL^{Pro} enzyme activity and the ACE2-spike interaction, with EC₅₀ values of 52 μM, 5 μM and 65 μM respectively^[1].</p> <p>Antimicrobial agent-11 (0-10 μg/mL approximately) shows activity against diverse species of Gram-positive bacteria^[1].</p> <p>Antimicrobial agent-11 (0-100 μM, 2 h) inhibits SARS-CoV-2 pseudovirus entry in Vero and A549-AT cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>S. aureus, E. faecalis, E. faecium, S. epidermidis, S. haemolyticus</td> </tr> <tr> <td>Concentration:</td> <td>0-1 μg/mL approximately</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Inhibited bacteria activities with MIC values of 0.25-7 μg/mL.</td> </tr> </table>	Cell Line:	S. aureus, E. faecalis, E. faecium, S. epidermidis, S. haemolyticus	Concentration:	0-1 μg/mL approximately	Incubation Time:		Result:	Inhibited bacteria activities with MIC values of 0.25-7 μg/mL.
Cell Line:	S. aureus, E. faecalis, E. faecium, S. epidermidis, S. haemolyticus								
Concentration:	0-1 μg/mL approximately								
Incubation Time:									
Result:	Inhibited bacteria activities with MIC values of 0.25-7 μg/mL.								

REFERENCES

[1]. Ilona Berczki, et al. Semisynthetic teicoplanin derivatives with dual antimicrobial activity against SARS-CoV-2 and multiresistant bacteria. Sci Rep. 2022 Sep 26;12(1):16001.

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

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