

Product Data Sheet

Antimicrobial agent-12

Cat. No.: HY-151502

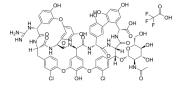
Molecular Weight: 1558.18

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-12 is a potent antibacterial agent with SARS-CoV-2 inhibitory activity $^{[1]}$.	
IC ₅₀ & Target	Bacteria, SARS-CoV-2 ^[1]	
In Vitro	Antimicrobial agent-12 (compound 6) shows inhibitory activity on coronavirus (SARS-CoV-2) replication and spike-mediated pseudovirus entry in Vero E6 cells, with EC $_{50}$ values of 13 μ M $^{[1]}$. Antimicrobial agent-12 inhibits 3CL Pro enzyme activity and the ACE2-spike interaction, with EC $_{50}$ values of 28 μ M and 48 μ M respectively $^{[1]}$. Antimicrobial agent-12 (0-1 μ g/mL approximately) shows activity against diverse species of Gram-positive bacteria including drug-resistant strains $^{[1]}$. Antimicrobial agent-12 (0-100 μ M, 2 h) inhibits SARS-CoV-2 pseudovirus entry in Vero and A549-AT cells $^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay $^{[1]}$	
	Cell Line: Concentration: Incubation Time:	S. aureus, E. faecalis, E. faecium, S. epidermidis, S. haemolyticus 0-1 µg/mL approximately
	Result:	Inhibited bacteria activities with MIC values of 0.0625-0.27 μg/mL.

REFERENCES

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

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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