

Product Data Sheet

Antimicrobial agent-10

Cat. No.: HY-151497

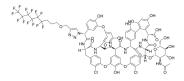
Molecular Weight: 1844.29

Target: SARS-CoV; Bacterial

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.



BIOLOGICAL ACTIVITY

Description	Antimicrobial agent-10 is a SARS-CoV-2 inhibitor with outstanding antibacterial activity $^{[1]}$.	
IC ₅₀ & Target	Bacteria, SARS-CoV-2 ^[1]	
In Vitro	Antimicrobial agent-10 (compound 4) shows inhibitory activity on coronavirus (SARS-CoV-2, HCoV-229E) replication and spike-mediated pseudovirus entry in Vero E6 cells, Calu-3 cells, A549-AT cells, with EC $_{50}$ values of 13-22 μ M ^[1] . Antimicrobial agent-10 inhibits cathepsin L, 3CL ^{Pro} enzyme activity and the ACE2-spike interaction, with EC $_{50}$ values of 66 μ M, 7.6 μ M, 9 μ M respectively ^[1] . Antimicrobial agent-10 (0-10 μ g/mL approximately) shows activity against diverse species of Gram-positive bacteria including drug-resistant strains ^[1] . Antimicrobial agent-10 (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:	S. aureus, E. faecalis, E. faecium, S. epidermidis, S. haemolyticus
	Concentration:	0-10 μg/mL approximately
	Incubation Time:	
	Result:	Inhibited bacteria activities with MIC values of 0.25-6.8 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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