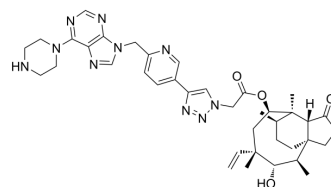


Antibacterial agent 190

Cat. No.:	HY-163342
Molecular Formula:	C ₃₉ H ₅₀ N ₁₀ O ₄
Molecular Weight:	722.88
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 190 (compound 16) is a antibacterial agent. Antibacterial agent 190 shows antibacterial activity. Antibacterial agent 190 reduces the bacterial burden of the peritoneum and blood ^[1] .								
In Vitro	Antibacterial agent 190 shows antibacterial activity with MIC values of 0.12-0.25, 0.03, 0.12, 0.03, 0.12 µg/mL for Staphylococcus aureus USA30, Streptococcus pneumoniae, Enterococcus faecium, Vancomycin-resistant Enterococcus faecium, Linezolid-resistant Enterococcus faecium, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	Antibacterial agent 190 (80 mg/kg; s.c.) reduces the bacterial burden of the peritoneum and blood in mouse sepsis/peritonitis infection model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>20 g, 21 NMRI female mice (S. aureus ATCC 25923; i.p.)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>80 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>S.c.</td> </tr> <tr> <td>Result:</td> <td>Reduced the bacterial burden of the peritoneum and blood.</td> </tr> </table>	Animal Model:	20 g, 21 NMRI female mice (S. aureus ATCC 25923; i.p.) ^[1]	Dosage:	80 mg/kg	Administration:	S.c.	Result:	Reduced the bacterial burden of the peritoneum and blood.
Animal Model:	20 g, 21 NMRI female mice (S. aureus ATCC 25923; i.p.) ^[1]								
Dosage:	80 mg/kg								
Administration:	S.c.								
Result:	Reduced the bacterial burden of the peritoneum and blood.								

REFERENCES

[1]. Heidtmann CV, et al. Hit-to-Lead Identification and Validation of a Triaromatic Pleuromutilin Antibiotic Candidate. J Med Chem. 2024 Feb 22.

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

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