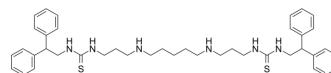


Antibacterial agent 201

Cat. No.:	HY-121661
CAS No.:	1666171-29-4
Molecular Formula:	C ₄₁ H ₅₄ N ₆ S ₂
Molecular Weight:	695.04
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 201 (Compound 3) is an antibacterial agent through disruption of membrane integrity. Antibacterial agent 201 inhibits proliferation of Staphylococcus aureus strain RN4220, methacillin-resistant S. aureus, Pseudomonas aeruginosa strain PA01 and Escherichia coli strain ANS1 with MIC _{99s} of 2.0, 1, 8.1 and 2.2 µg/mL, respectively ^[1] .								
In Vitro	<p>Antibacterial agent 201 (0-100 µg/mL) exhibits cytotoxicity in cancer cells A549 and HEK293T, with CC_{50s} of 64 and 32 µg/mL, respectively^[1].</p> <p>Antibacterial agent 201 (1-4 µg/mL) interacts synergistically with Kanamycin (HY-16566)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549, HEK293T</td> </tr> <tr> <td>Concentration:</td> <td>0-100 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Exhibited cytotoxicity in A549 and HEK293T.</td> </tr> </table>	Cell Line:	A549, HEK293T	Concentration:	0-100 µg/mL	Incubation Time:	48 h	Result:	Exhibited cytotoxicity in A549 and HEK293T.
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REFERENCES

[1]. Wang B, et al., Antibacterial Diamines Targeting Bacterial Membranes. J Med Chem. 2016 Apr 14;59(7):3140-51.

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

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