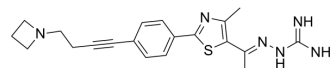


Antibacterial agent 106

Cat. No.:	HY-147531
CAS No.:	2459657-11-3
Molecular Formula:	C ₂₀ H ₂₄ N ₆ S
Molecular Weight:	380.51
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 106 (compound 8) is an orally active and potent antibacterial agent with antibiofilm activity. Antibacterial agent 106 shows potent antibacterial effect against multi-agent resistant (MDR)-Gram positive pathogens. Antibacterial agent 106 is highly effective in clearing 99.7% of the intracellular methicillin-resistant <i>S. aureus</i> (MRSA) harbored inside macrophages ^[1] . Antibacterial agent 106 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vivo	Antibacterial agent 106 (compound 8) can penetrate gut cells and reach plasma within 15 min and maintain effective plasma concentration for around 12 h ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hosny Y, et al. Modifying the lipophilic part of phenylthiazole antibiotics to control their drug-likeness. *Eur J Med Chem.* 2020 Jan 1;185:111830.

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

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