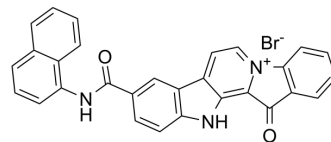


Anti-MRSA agent 3

Cat. No.:	HY-144823
CAS No.:	2416909-42-5
Molecular Formula:	C ₂₉ H ₁₈ BrN ₃ O ₂
Molecular Weight:	520.38
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anti-MRSA agent 3 (compound 18) has highly inhibitory activity against Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) with MIC of 0.098 µg/ml, and low cytotoxicity in normal cells. Anti-MRSA agent 3 has relatively strong ability to destroy bacterial cell wall and membrane, high binding affinity to bacterial genomic DNA ^[1] .
IC ₅₀ & Target	MIC: 0.098 µg/ml (MRSA) ^[1]
In Vivo	Anti-MRSA agent 3 has potent efficacy at a dose of 10 mg/kg (20% survival) in a mouse peritonitis model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang X, et al. Fascaplysin derivatives binding to DNA via unique cationic five-ring coplanar backbone showed potent antimicrobial/antibiofilm activity against MRSA in vitro and in vivo. *Eur J Med Chem.* 2022;230:114099.

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

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