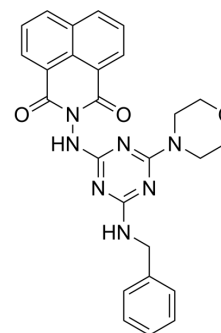


## Antibacterial agent 144

Cat. No.:	HY-155060
Molecular Formula:	C <sub>26</sub> H <sub>23</sub> N <sub>7</sub> O <sub>3</sub>
Molecular Weight:	481.51
Target:	Bacterial; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Antibacterial agent 144 (compound 8e) is an antibacterial agent with better effect against multi-resistant *Staphylococcus aureus* than Chloromycin and Amoxicillin (HY-B0467A). Antibacterial agent 144 destroys the cytoplasmic membrane of bacteria and inhibits the biofilms formation. Antibacterial agent 144 binds to HSA (K<sub>d</sub>=13.2 μM) and exerts bactericidal efficacy. Antibacterial agent 144 also binds with DNA to form a supramolecular complex to obstruct DNA replications<sup>[1]</sup>.

### REFERENCES

[1]. Gupta S, et al. Membrane-active substituted triazines as antibacterial agents against *Staphylococcus aureus* with potential for low drug resistance and broad activity. *Eur J Med Chem.* 2023 Oct 5;258:115551.

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

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