

## Anti-MRSA agent 26

## Chemical Properties

CAS No. :

Formula: C36H44N8O4

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Anti-MRSA agent 26 (compound 21) is an antibiotic that serves as a potent MRSA inhibitor. It exhibits a MIC of <0.015 µg/mL for MSSA and a MIC range of 0.015-0.06 µg/mL for MSSA, MRSE, and VRE. In a murine model of Staphylococcus aureus skin infection, Anti-MRSA agent 26 effectively clears the infection. It is a 7-deazapurine pyridine with potential application for treating topical infections caused by multidrug-resistant Gram-positive bacteria.
Targets(IC50)	Antibacterial
In vitro	Anti-MRSA agent 26 (Compound 21) demonstrates no toxicity at a concentration of 10 µM towards Caco-2, DU-145, and MDCKII MDR1 cells within a 3-hour exposure. Furthermore, Anti-MRSA agent 26 exhibits remarkable activity against various Gram-positive pathogens, with a MIC of <0.015 µg/mL for MRSE, 0.015-0.03 µg/mL for MRSA, VRE1, VRE5, and 0.06 µg/mL for MSSA, when administered in the range of 0.015-16 µg/mL over 20-24 hours.
In vivo	Compound 21, an anti-MRSA agent, is applied as a 2% cream on wounds twice daily, with a 6-hour interval between applications, over a period of 5 days. This treatment significantly reduces bacterial load in a mouse model of Staphylococcus aureus skin infection.

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