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Kocurin

Cat. No.:	HY-W748000
CAS No.:	1374772-61-8
Molecular Formula:	C ₆₉ H ₆₆ N ₁₈ O ₁₃ S ₅
Molecular Weight:	1515.7
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Kocurin (PM181104) is a thiazolyl cyclic-peptide antibiotic. Kocurin inhibits bacterial growth by impeding bacterial protein biosynthesis during the translation phase. Kocurin has strong inhibitory activity against Gram-positive bacteria, but no activity against fungi and Gram-negative bacteria ^[1] .
In Vitro	Kocurin (24 h) inhibits <i>S. aureus</i> with MICs in the range of 0.008 to 2.048 µg/mL and an MIC ₉₀ value of 0.064 µg/mL ^[1] . Kocurin (24 h) inhibits <i>S. epidermidis</i> with MICs in the range of 0.008 to 1.024 µg/mL and an MIC ₉₀ value of 0.128 µg/mL ^[1] . Kocurin (24 h) inhibits VRE and VSE strains with MICs in the range of 0.004 to 1.024 µg/mL and an MIC ₉₀ value of 0.016 µg/mL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Kocurin (1.25-10 mg/kg; intravenous injection; single dose) has the 100% effective dose (ED ₁₀₀) values of 2.5 and 5.0 mg/kg for MRSA, and an ED ₁₀₀ value of 10.0 mg/kg for VRE in the BALB/c mouse septicemia model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mahajan G, et al. In vitro and in vivo activities of antibiotic PM181104. Antimicrob Agents Chemother. 2013 Nov;57(11):5315-9.

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

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