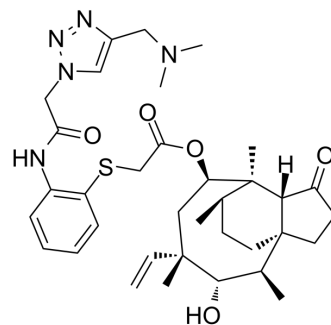


Antibacterial agent 102

Cat. No.:	HY-146458
CAS No.:	2413293-65-7
Molecular Formula:	C ₃₅ H ₄₉ N ₅ O ₅ S
Molecular Weight:	651.86
Target:	Bacterial; Cytochrome P450
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 102 (compound 32) possesses potent in vitro and in vivo antibacterial activity, with MICs < 0.5 µg/mL in <i>Staphylococcus aureus</i> (<i>S. aureus</i>). Antibacterial agent 102 also moderately inhibits CYP3A4 with an IC ₅₀ value of 6.148 µM. Antibacterial agent 102 can reduce Methicillin-resistant Staphylococcus aureus (MRSA) load in thigh infected mice ^[1] .
IC ₅₀ & Target	MIC: < 0.5 µg/mL (<i>S. aureus</i>) ^[1] IC ₅₀ : 6.148 µM (CYP3A4) ^[1]

REFERENCES

[1]. Zhang Z, et al. Design, synthesis and biological activities of novel pleuromutilin derivatives with a substituted triazole moiety as potent antibacterial agents. Eur J Med Chem. 2020;204:112604.

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

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