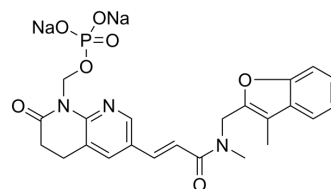


Afabicin disodium

Cat. No.:	HY-109000A
CAS No.:	1518800-29-7
Molecular Formula:	C ₂₃ H ₂₂ N ₃ Na ₂ O ₇ P
Molecular Weight:	529.39
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Afabicin (Debio 1450) is the proagent of Debio1452, specifically targeting staphylococci without significant activity against other Gram-positive or Gram-negative species. Debio1452 is an inhibitor FabI, an enzyme critical to fatty acid biosynthesis in staphylococci ^[1] .
In Vitro	Afabicin (Debio1450) is the prodrug of Debio1452, specifically targeting staphylococci without significant activity against other Gram-positive or Gram-negative species. Debio1452 inhibits FabI, an enzyme critical to fatty acid biosynthesis in staphylococci. Debio1452 is highly active against staphylococci isolates, with MIC ₅₀ and MIC ₉₀ values of 0.015 µg/mL and 0.12 µg/mL, respectively. Debio1452 also inhibits <i>S. aureus</i> , with MICs of ≤0.12 µg/mL and MIC ₅₀ and MIC ₉₀ values of 0.004 µg/mL and 0.008 µg/mL, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Flamm RK, et al. Activity of Debio1452, a FabI inhibitor with potent activity against *Staphylococcus aureus* and coagulase-negative *Staphylococcus* spp., including multidrug-resistant strains. *Antimicrob Agents Chemother.* 2015;59(5):2583-2587.

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

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