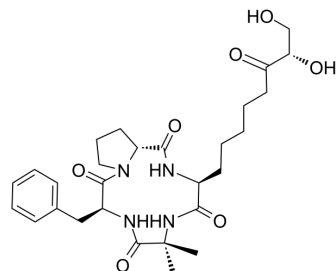


## Koshidacin B

Cat. No.:	HY-N10624
CAS No.:	2925302-01-6
Molecular Formula:	C <sub>28</sub> H <sub>40</sub> N <sub>4</sub> O <sub>7</sub>
Molecular Weight:	544.64
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Koshidacin B is an antiplasmodial cyclic tetrapeptide with antiplasmodial activity against <i>P. falciparum</i> FCR3 and K1 strain with IC <sub>50</sub> values of 0.89 and 0.83 μM, respectively. Koshidacin B suppresses malaria parasites in vivo, it can be used for the research of parasites infection <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 0.89 μM ( <i>P. falciparum</i> FCR3 strain), 0.83 μM ( <i>P. falciparum</i> K1 strain), 14.7 μM (human MRC-5 cells) <sup>[1]</sup>	
<b>In Vitro</b>	Koshidacin B (72 h) shows antiplasmodial activity against chloroquine-sensitive <i>P. falciparum</i> FCR3 strain and chloroquine-resistant <i>P. falciparum</i> K1 strain with IC <sub>50</sub> values of 0.89 and 0.83 μM, respectively <sup>[1]</sup> . Koshidacin B (7 d) shows cytotoxicity against human MRC-5 cells with an IC <sub>50</sub> value of 14.7 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	Koshidacin B (30 mg/kg; i.p.; once daily for 4 d) shows vivo antiplasmodial effects <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	<i>P. berghei</i> N strain-infected ICR (CD1) mice <sup>[1]</sup>
	Dosage:	30 mg/kg
	Administration:	Intraperitoneal injection; 30 mg/kg; once daily; for 4 days
	Result:	Suppressed 41% of malaria parasites.

### REFERENCES

[1]. Watanabe Y, et al. Koshidacins A and B, Antiplasmodial Cyclic Tetrapeptides from the Okinawan Fungus *Pochonia boninensis* FKR-0564. *J Nat Prod.* 2022 Oct 25.

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

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