

Koshidacin B

Chemical Properties

CAS No. :	2925302-01-6
Formula:	C ₂₈ H ₄₀ N ₄ O ₇
Molecular Weight:	544.64
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	Koshidacin B, a cyclic tetrapeptide, exhibits potent antiplasmodial activity, evidenced by its ability to inhibit Plasmodium falciparum strains FCR3 and K1 with IC ₅₀ values of 0.89 μM and 0.83 μM, respectively. It has been shown to effectively suppress malaria parasites in vivo and has potential applications in parasitic infection research [1].
Targets(IC ₅₀)	Others,Parasite
In vitro	Koshidacin B exhibits antiplasmodial properties, efficacious against both chloroquine-sensitive P. falciparum FCR3 and chloroquine-resistant P. falciparum K1 strains, presenting IC ₅₀ values of 0.89 μM and 0.83 μM after a 72-hour exposure, respectively [1]. Additionally, a 7-day exposure to Koshidacin B reveals cytotoxic effects on human MRC-5 cells with an IC ₅₀ of 14.7 μM [1].
In vivo	Koshidacin B, administered intraperitoneally at a dosage of 30 mg/kg once daily over a four-day period, exhibits in vivo antiplasmodial activity [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8361 mL	9.1804 mL	18.3608 mL
5 mM	0.3672 mL	1.8361 mL	3.6722 mL
10 mM	0.1836 mL	0.918 mL	1.8361 mL
50 mM	0.0367 mL	0.1836 mL	0.3672 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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