## Longistyline A

®

MedChemExpress

Cat. No.:	HY-N9690		
CAS No.:	64095-60-9		
Molecular Formula:	$C_{20}H_{22}O_{2}$	OH	
Molecular Weight:	294.39		
Target:	Bacterial	0	
Pathway:	Anti-infection		
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		

BIOLOGICAL ACTIV		
Description	Longistyline A (Longistyl antimicrobial activity ag	lin A) is a natural stilbene, it can be isolated from leaves of Cajanus cajan. Longistyline A shows ainst MRSA with an MIC value of 1.56 μg/mL. Longistyline A shows neuroprotective effects, it can be infection and nerve diseases <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	IC50: 8.61 μg/mL (murine RAW264.7 cells) <sup>[2]</sup>	
In Vitro	Longistyline A can functi increasing the permeating Longistyline A (0-100 µg/ CMCC63302 with MIC val (JCSC4744 and JCSC446 Longistyline A (24 h) sho	/mL) shows significant antimicrobial activity against tested Gram-positive bacteria, such as B.cereus lues of 25 μg/mL, S.aureus CMCC26003 with MIC values of 1.56 μg/mL, and both two strains of MRSA 9) with MIC values of 1.56 μg/mL <sup>[2]</sup> . ws cytotoxicity towards murine RAW264.7 cells with an IC <sub>50</sub> value of 8.61 μg/mL <sup>[2]</sup> . htly confirmed the accuracy of these methods. They are for reference only.
In Vivo	MRSA bacterial survivals	solved in 50 µL PBS buffer; apply to the wound; for 30 min) improves wound healing, decreases is in the lesions and reduces inflammatory reaction in MRSA infected mice <sup>[2]</sup> . Intly confirmed the accuracy of these methods. They are for reference only. Female wound healing BALB/c mice with MRSA infection <sup>[2]</sup>
	Dosage:	10 µg

Product Data Sheet

Administration:	Apply to the wound; 10 $\mu g$ dissolved in 50 $\mu L$ PBS buffer; 5 min after infection for 30 min
Result:	Showed a wound healing efficiency and significantly alleviated weight loss induced by
	MRSA infection. Reduced gram-positive microorganisms in vivo with a better effect than
	vancomycin. Reduced accumulation of immune cells at the injury site and alleviated
	induction of TNF-α and IL-6 in serum.

## REFERENCES

[1]. Jiang BP, et al. [Neuroprotective effect of longistyline A against corticosterone-induced neurotoxicity in PC12 cells]. Yao Xue Xue Bao. 2012 May;47(5):600-3.

[2]. Wu J, et al. Longistylin A, a natural stilbene isolated from the leaves of Cajanus cajan, exhibits significant anti-MRSA activity. Int J Antimicrob Agents. 2020 Jan;55(1):105821.

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

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