

Produktinformation



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Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Longistyline A

®

MedChemEx	kpress	Product Data Sheet	Inhibitors
Longistyline	Α		•
Cat. No.:	HY-N9690		Screer
CAS No.:	64095-60-9		ling
Molecular Formula:	$C_{20}H_{22}O_{2}$	UH	Lib
Molecular Weight:	294.39		rari
Target:	Bacterial	0	es
Pathway:	Anti-infection		•
Storage:	Please store the product under the recommended conditions in the Certificate Analysis.	e of	Proteins

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BIOLOGICAL ACTIVI			
Description	Longistyline A (Longistylin A) is a natural stilbene, it can be isolated from leaves of Cajanus cajan. Longistyline A shows antimicrobial activity against MRSA with an MIC value of 1.56 µg/mL. Longistyline A shows neuroprotective effects, it can be used for the research of infection and nerve diseases ^{[1][2]} .		
IC ₅₀ & Target	IC50: 8.61 µg/mL (murine RAW264.7 cells) ^[2]		
In Vitro	Longistyline A (4-16 μM/L; 48 h) reduces the corticosterone-induced neurotoxicity in PC12 cells ^[1] . Longistyline A can function as a membrane-targeting antibacterial agent by disturbing bacterial membrane potential and increasing the permeation ^[2] . Longistyline A (0-100 µg/mL) shows significant antimicrobial activity against tested Gram-positive bacteria, such as B.cereus CMCC63002 with MIC values of 25 µg/mL, S.aureus CMCC26003 with MIC values of 1.56 µg/mL, and both two strains of MRSA (JCSC4744 and JCSC4469) with MIC values of 1.56 µg/mL ^[2] . Longistyline A (24 h) shows cytotoxicity towards murine RAW264.7 cells with an IC ₅₀ value of 8.61 µg/mL ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Line: PC12 cell line Concentration: 4, 8 and 16 µM/L Incubation Time: 48 hours Result: Generated a neuroprotective effect against corticosterone-induced neurotoxicity in PC12 cells possibly by decreasing [Ca ²⁺]i and caspase-3 activity.		
In Vivo	Longistyline A (10 µg dissolved in 50 µL PBS buffer; apply to the wound; for 30 min) improves wound healing, decreases MRSA bacterial survivals in the lesions and reduces inflammatory reaction in MRSA infected mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female wound healing BALB/c mice with MRSA infection ^[2]	
	Dosage:	10 µg	

Administration:	Apply to the wound; 10 μ g dissolved in 50 μ 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

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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