NF-ĸB-IN-8

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target:	HY-149248 2924565-59-1 C ₂₄ H ₂₁ N ₃ O ₃ 399.44 ΝF-κΒ	
Target: Pathway:	NF-κB NF-κB	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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BIOLOGICAL ACTIV			
Description	NF-κB-IN-8 competitively antagonizes LPS binding to MD-2. NF-κB-IN-8 reduces the expression of inflammatory factors by binding to MD-2. NF-κB-IN-8 also inhibits ALP activity. NF-κB-IN-8 can be used for the research of inflammation such as acute lung injury (ALI) ^[1] .		
In Vitro	NF-κB-IN-8 (Compound L26) (10 μM) inhibits ALP activity by 64.30% ^[1] . NF-κB-IN-8 (1-10 μM, 24 h) inhibits expression of IL-6 and TNF-α in RAW 264.7 cells ^[1] . NF-κB-IN-8 (0-50 μM) inhibits the binding of LPS to MD-2, determined by ELISA Asssay ^[1] . NF-κB-IN-8 (50 μM, overnight) inhibits the formation of LPS/MD-2/TLR4 polymers in RAW264.7 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]		
	Cell Line:	RAW264.7 cells	
	Concentration:	50 μΜ	
	Incubation Time:	Overnight	
	Result:	Inhibited the expression of LPS/MD-2/TLR4 polymers.	
In Vivo	NF-κB-IN-8 (Compound L26) (5 mg/kg, intra-gastrically administration) attenuates LPS-induced ALI in mice ^[1] . NF-κB-IN-8 (1000 and 1500 mg/kg, intra-gastrically administration) is low in toxic and safe in mice ^[1] . NF-κB-IN-8 (10 mg/kg, rats) shows T _{1/2} : 4.2 h, C _{max} : 163.288 μg/L ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	ALI mice induced by LPS ^[1]	
	Dosage:	5 mg/kg	
	Administration:	Intra-gastrically administration	
	Result:	Downregulated the expression of pro-inflammatory factor Mrna (TNF-α). Decreased ALP level in bronchoalveolar lavage fluid. Inhibited the phosphorylation of p65 and increased the release of IκB-α. (WB assay, lung	



tissue sample)

REFERENCES

[1]. Li X, et al. Novel O-benzylcinnamic acid derivative L26 treats acute lung injury in mice by MD-2. Eur J Med Chem. 2023 Apr 5;252:115289.

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

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