NF-ĸB-IN-15

Cat. No.:	HY-162316	
Molecular Formula:	$C_{46}H_{58}N_4O_8$	OH O
Molecular Weight:	794.97	e e e e e e e e e e e e e e e e e e e
Target:	NF-κB	
Pathway:	NF-κB	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	ОСНОСИ

Product Data Sheet

BIOLOGICAL ACTIV			
Description	NF-κB-IN-15 (compound 14r) is a potent NF-κB inhibitor. NF-κB-IN-15 decreases the NO levels and inhibits the release of IL-6, TNF-α, and IL-1β in LPS (HY-D1056) -induced cells. NF-κB-IN-15 inhibits LPS-induced phosphorylation of p65 and degradation of IκBα. NF-κB-IN-15 shows anti-inflammatory activity has the potential for the research of acute lung injury (ALI) ^[1] .		
In Vitro	NF-κB-IN-15 (compound 14r) (1.25, 2.5, 5, 10, 20 μM; 1+24 h) decreases the NO levels in a dose-dependent manner and inhibits the release of IL-6, TNF-α, and IL-1β in LPS-induced RAW 264.7 cells ^[1] . NF-κB-IN-15 (10, 20 μM; 1+4 h) inhibits LPS-induced phosphorylation of p65 and degradation of IκBa ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1] Cell Line:RAW 264.7 cells ^[1] Concentration:10, 20 μMIncubation Time:1 h (LPS (1 μg/mL) for 4 h)Result:Decreased the expression of p-p65and inhibited degradation of IκBa. LPS-induced levels of IL-6, TNF-α, and IL-1β.		
In Vivo	NF-κB-IN-15 (compound 14r) MCE has not independently of Animal Model: Dosage: Administration: Result:	VF-κB-IN-15 (compound 14r) (20 mg/kg; i.p.) shows anti-inflammatory activity in Acute lung injury (ALI) mice ^[1] . ACE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: 18-20 g, Male C57BL/6 mice ^[1] Dosage: 20 mg/kg+LPS (15 mg/kg, i. p.) Administration: I.p. Result: Reduced the LPS-induced levels of IL-6, TNF-α, and IL-1β in the bronchoalveolar lavage fluid (BALF) and acute lung injury.	



®

REFERENCES

[1]. Zhang J, et al. Total synthesis and structural modification of the dibenzylbutane lignan LCA as a potent anti-inflammatory agent against LPS-induced acute lung injury. Eur J Med Chem. 2024 Feb 20;268:116272.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA