IKKβ-IN-3

Cat. No.: HY-163412

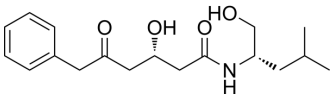
Molecular Formula: $C_{18}H_{27}NO_4$

Molecular Weight: 321.41

Target: IKK

Pathway: NF-κB

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

IKKβ-IN-3 (Compound hit4) is a IKKβ inhibitor with an IC_{50} value of 30.4 nM. IKKβ is a key enzyme in the NF-κB signaling pathway and is involved in the development of many diseases. IKKβ-IN-3 can be used in the study of CAF-induced arthritis[1].

IC_{50} & Target

IKKβ
30.4 nM (IC_{50})

In Vivo

IKKβ-IN-3 (Compound hit4) (10, 30 mg/kg; 1 dose, 14 days) can reduce inflammation in complete Freund's adjuvant-induced arthriti (AIA) rat model[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Adjuvant-induced arthritis (AIA) rat model[1]
Dosage:	10 and 30 mg/kg
Administration:	gastric gavage (i.g.)
Result:	At 30 mg/kg, significantly reduced rat paw swelling, inflammatory cell infiltration and hyperemia of the synovium.

Animal Model:	
Dosage:	
Administration:	
Result:	

REFERENCES

[1]. Li L, et al. The discovery of a novel IκB kinase β inhibitor based on pharmacophore modeling, virtual screening and biological evaluation. Future Med Chem. 2024;16(6):531-544.

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