SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

TNIK-IN-9

Cat. No.: HY-163478

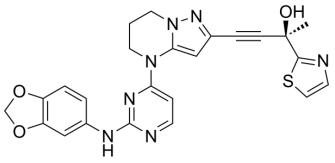
Molecular Formula: $C_{24}H_{21}N_7O_3S$

Molecular Weight: 487.53

Target: NF-κB

Pathway: NF-κB

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



BIOLOGICAL ACTIVITY

Description

TNIK-IN-9 (Compound 54) is a selective and potent NIK inhibitor, with an IC_{50} of 1.27 nM. TNIK-IN-9 can inhibit pro-inflammatory cytokines and nitric oxide production. TNIK-IN-9 exhibits significant anti-inflammatory effects, improved mortality, and hepatoprotective effects in sepsis models[1].

In Vitro

TNIK-IN-9 (5 μM, 2 h) decreases the levels of inflammatory cytokines and chemokines (TNF-α, IL-6, IL-1β, and CCL12, respectively) in LPS and CD40 induced RAW264.7 cells[1].

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

In Vivo

TNIK-IN-9 (10 mg/kg, i.p., once time) inhibits the secretion of inflammatory cytokines (TNF-α, IL-1β, CXCL-12, IL-6, IFN-γ) in LPS induced mice[1].

Pharmacokinetic Analysis in C57BL/6J Mouse Model[1]

Route	Dose (mg/kg)	AUC_{last} (ng·h/mL)	AUC_{inf} (ng·h/mL)	$T_{1/2}$ (h)	C_0 (ng/mL)	CL (mL/min/kg)	C_{max} (ng/mL)	T_{max}(h)
i.v.	10	3019	3021	0.741	5059	56.2	/	/
i.p.	10	2525	2551	2.27	/	/	1280	0.50

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

Animal Model:	LPS induced mice[1]
Dosage:	10 mg/kg
Administration:	i.p., once time
Result:	Decreased the levels of AST, ALT, and AKP. Reduced necrosis and inflammatory cell infiltration. Decreased the p52 protein levels and increased p100 protein levels.

REFERENCES

[1]. Zhang N, et al. Design, Synthesis, and Biological Evaluation of a Novel NIK Inhibitor with Anti-Inflammatory and Hepatoprotective Effects for Sepsis Treatment. J Med Chem. 2024 Apr 11;67(7):5617-5641.

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