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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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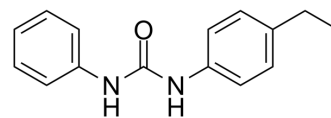
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INH14

Cat. No.:	HY-114454
CAS No.:	200134-22-1
Molecular Formula:	C ₁₅ H ₁₆ N ₂ O
Molecular Weight:	240.3
Target:	IKK
Pathway:	NF-κB
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 125 mg/mL (520.18 mM)			
	* "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline			
	Solubility: ≥ 2.08 mg/mL (8.66 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil			
	Solubility: ≥ 2.08 mg/mL (8.66 mM); Clear solution			
	Please refer to the solubility information to select the appropriate solvent.			

BIOLOGICAL ACTIVITY

Description	INH14 is a cell permeable inhibitor of IKKα/IKKβ, with IC ₅₀ s of 8.97 and 3.59 μM, respectively. INH14 inhibits the IKKα/β-dependent TLR inflammatory response. INH14 also inhibits downstream of TAK1/TAB1 and NF-κB pathways. Anti-inflammatory and anti-cancer activity ^[1] .	
IC ₅₀ & Target	IKKβ 3.59 μM (IC ₅₀)	IKKα 8.97 μM (IC ₅₀)
In Vivo	INH14 (5 μg/g, i.p. for 2 hours) reduces lipopeptide-induced inflammation in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

Animal Model:	8-week old, male, pathogen-free C57BL/6J mice ^[1]
Dosage:	5 µg/g, one hour before Pam2CSK4 injection
Administration:	I.P. for 2 hours
Result:	Decreased TNFα production in mice.

CUSTOMER VALIDATION

- Adipocyte. 08 Aug 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Drexel M, et al. INH14, a Small-Molecule Urea Derivative, Inhibits the IKKα/β-Dependent TLR Inflammatory Response. Chembiochem. 2019 Mar 1;20(5):710-717.

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

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