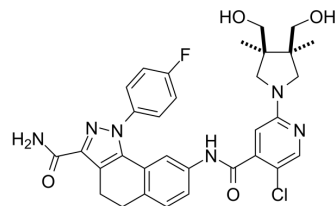


PF-184

Cat. No.:	HY-107591B
Molecular Formula:	C ₃₂ H ₃₂ ClFN ₆ O ₄
Molecular Weight:	619.09
Target:	IKK
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PF-184 is a potent and selective IKK-2 inhibitor (IC ₅₀ : 37 nM) over rhIKK-1, IKKi, and more than 30 tyrosine and serine/threonine kinases. PF-184 can be used in the research of inflammation, such as asthma and chronic obstructive pulmonary disease ^[1] .								
IC₅₀ & Target	IKK-2 37 nM (IC ₅₀)								
In Vitro	PF-184 (0.7 nM-10 μM, 1 h) displays inhibitory activity after successive washes of LPS-stimulated PBMC kinase activation ^[1] . PF-184 (1 h) broadly inhibits IKK-2-dependent inflammatory products in human disease-relevant cells (such as PBMC, neutrophils, airway epithelial cells, and airway endothelial cells), with IC ₅₀ values ranging from 8 nM to 343 nM ^[1] . PF-184 (2 nM-10 μM, 1 h) inhibits IL-1β-induced TNF-α in a concentration-dependent manner in PBMCs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	PF-184 (Intratracheal administration, 0.3-2.5 mg/mL, 100 μL) dose-dependently inhibits neutrophil infiltration and BAL cell cytokine production in rat airway inflammation model ^[1] . PF-184 (i.v. 2 mg/kg or p.o. 5 mg/kg, rats) shows a T _{1/2} (i.v.) value of 1 h, low oral bioavailability (5%), and high i.v. clearance (59 mL/min/kg) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>Rat airway model of neutrophilia^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.3-2.5 mg/mL, 100 μL</td> </tr> <tr> <td>Administration:</td> <td>Intratracheal administration</td> </tr> <tr> <td>Result:</td> <td>Suppressed neutrophil infiltration with an EC₅₀ value of 1 mg/mL. Suppressed BAL fluid TNF-α and PGE₂ levels, and inhibited p65 translocation.</td> </tr> </table>	Animal Model:	Rat airway model of neutrophilia ^[1]	Dosage:	0.3-2.5 mg/mL, 100 μL	Administration:	Intratracheal administration	Result:	Suppressed neutrophil infiltration with an EC ₅₀ value of 1 mg/mL. Suppressed BAL fluid TNF-α and PGE ₂ levels, and inhibited p65 translocation.
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REFERENCES

[1]. Cynthia D Sommers, et al. Novel tight-binding inhibitory factor-kappaB kinase (IKK-2) inhibitors demonstrate target-specific anti-inflammatory activities in cellular

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