FXIa-IN-8

®

MedChemExpress

Cat. No.:	HY-144658	
CAS No.:	2744293-04-5	
Molecular Formula:	C ₃₁ H ₂₉ ClN ₈ O ₅	
Molecular Weight:	629.07	
Target:	Factor Xa	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	N~N N=N



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Product Data Sheet

BIOLOGICAL ACTIV								
Description	FXIa-IN-8 is a pote		ctive FXIa inhibito nd obvious toxicit		f 14.2 nM. FXIa-I	N-8 shows antii	hrombotic activi	ty without
IC ₅₀ & Target	IC ₅₀ : 14.2 nM (FXIa); 27900 nM (PKal) ^[1]							
In Vitro	FXIa-IN-8 (compound 35) (0-250 μg/mL) shows significant anticoagulant activity toward the intrinsic pathway without affecting the extrinsic pathway ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
In Vivo	FXIa-IN-8 (6.5, 19. FXIa-IN-8 (50, 100 FXIa-IN-8 (10 mg/ heparin sodium a	5 mg/kg; i.v. mg/kg; i.v.) kg; i.v.) shov t 300 IU/kg ^{[1}	tivity for FXIa and PKal with IC ₅₀ s of 14.2, 27900 nM, respectively ^[1] . g/kg; i.v.) shows antithrombotic activity in vivo ^[1] . /kg; i.v.) shows no acute toxicity ^[1] . .v.) shows moderate PK profiles ^[1] .FXIa-IN-8 (19.5, 39 mg/kg) exhibits a much lower bleeding risk than 0 IU/kg ^[1] . ameters of FXIa-IN-8 in Male SD rats ^[1] .					
	compd 35	T _{1/2} (h)	C _{max} (µg/mL)	AUC _{0-t} (h∙µg/mL)	AUC _{0-∞} (h∙µg/mL)	V _z (mL/kg)	Cl (mL/h/kg)	MRT _{0-t} (h)
	i.v. (10 mg/kg)	1.26	57	18.3	18.4	969	553	0.32
	Male SD rats; 10 r MCE has not inde	0.0	[1] onfirmed the accu	racy of these m	nethods. They ar	re for reference	only.	
	Animal Model:		Male SD rats ^[1]					
	Dosage:		10 mg/kg (300 II before surgery)	J/kg (2.7 mg/kg	g) heparin sodiu	m were injected	d into the tail veir	10 min
	Administration:		l.v.					
	Result:		Showed modera	ate PK profiles	with a half-life v	alue (T ^{1/2}) of 1.	26 h and a cleara	nce (Cl)

	value of 553 mL/h/kg.					
Animal Model:	C57BL/6J mice (FeCl3-induced carotid artery thrombus model) ^[1]					
Dosage:	6.5, 19.5 mg/kg					
Administration:	l.v.					
Result:	Slightly prolonged the time of occlusion at 6.5 mg/kg, and showed excellent antithrombotic activity at 35 mg/kg.					
Animal Model:	ICR mice ^[1]					
Dosage:	50, 100 mg/kg					
Administration:	l.v.					
Result:	Showed no obvious toxic reaction to different tissues of mice.					
Animal Model:	C57BL/6J mice ^[1]					
Dosage:	19.5, 39, 20, 60, 100 mg/kg					
Administration:	l.v.					
Result:	Showed a low bleeding risk at 60 and 100 mg/kg.					

REFERENCES

[1]. Yao N, et al. Targeting the S2 Subsite Enables the Structure-Based Discovery of Novel Highly Selective Factor XIa Inhibitors. J Med Chem. 2022; 65(5):4318-4334.

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

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