FXIa-IN-10

Cat. No.:	HY-151196	N.
CAS No.:	2816108-08-2	N N
Molecular Formula:	$C_{23}H_{18}Cl_2F_3N_9O_2$	N N
Molecular Weight:	580.35	, , , , , , , , , , , , , , , , , , ,
Target:	Others	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	N=N N=N

Product Data Sheet

BIOLOGICAL ACTIV											
Description	FXIa-IN-10 (Compound 3f) is a potent activated factor XI (FXIa) inhibitor with an K _i of 0.17 nM. FXIa-IN-10 has good oral bioavailability ^[1] .										
IC ₅₀ & Target	K _i : 0.17 nM (FXIa) ^[1]										
In Vivo	rabbit AV shunt thrombos FXIa-IN-10 (0-10 mg/kg; p. monkey 43.0%) ^[1] .	(1.7+2.0 and 8.5+10.0 (bolus + infusion) mg/kg; i.v.; twice) shows antithrombotic efficacy in a is model ^[1] . o.; once) demonstrates oral bioavailability in preclinical species (rat 36.4%, dog 80.5%, and ly confirmed the accuracy of these methods. They are for reference only.									
	Animal Model:	Male New Zealand White (NZW) rabbits, AV shunt thrombosis $model^{[1]}$									
	Dosage:	sage: 1.7+2.0 and 8.5+10.0 (bolus + infusion) mg/kg									
	Administration:	Intravenous injection, 20 min prior to and 40 min during the AV shunt									
	Result: Reduced thrombus weights in a dose-dependent manner.										
	Animal Model:	Sprague-Dawley rats, Beagle dogs, Cynomolgus monkeys ^[1]									
	Dosage:	Dosage: 1, 2, 5 or 10 mg/kg									
	Administration:	Intravenous or oral administration (Pharmacokinetic Analysis)									
	Result: Pharmacokinetic Profile of FXIa-IN-10 (Compound 3f) in Preclinical Species ^{a[1]}										
		animal clearance T _{1/2} (h) V _{dss} (L/kg) F% AUC (iv) (µ AUC (po) (Dose (mL/min/kg) V _{dss} (L/kg) M•h) µM•h) iv/po (mpk)									

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	10.7 ± 1.8	1.4 ± 0.0	0.8 ± 0.1	36.4	5.5 ± 1.0	10.0 ± 2.4	2/10
ey	25.6 ± 4.0	1.0 ± 0.4	1.5 ± 0.4	43.0	1.1 ± 0.2	2.5 ± 0.3	1/5
	ıd was dosed a 0% water. Dat		,			10% ethanc	ol; 70%

REFERENCES

[1]. Xu G, et al. Discovery of Potent and Orally Bioavailable Pyridine N-Oxide-Based Factor XIa Inhibitors through Exploiting Nonclassical Interactions. J Med Chem. 2022 Aug 11;65(15):10419-10440.

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

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