PAR4 antagonist 4

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Cat. No.:	HY-162409	
Molecular Formula:	C ₂₂ H ₁₆ FN ₃ O ₅ S	
Molecular Weight:	453.44	
Target:	Protease Activated Receptor (PAR)	
Pathway:	GPCR/G Protein	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	F

Product Data Sheet

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BIOLOGICAL ACT											
Description	PAR4 antagor exhibits antip	PAR4 antagonist 4 (Compound 37) is a selective antagonist for protease activated receptor 4 (PAR4). PAR4 antagonist 3 exhibits antiplatelet efficacy with IC_{50} of 14.2 nM. PAR4 antagonist 3 improves metabolic stablility in human liver microsomes with $T_{1/2}$ of 42.5 min ^[1] .									
In Vitro	pathway ^[1] .	PAR4 antagonist 4 (4 μM) exhibits antagonistic effect on GPVI, that inhibits collagen-induced platelet aggregation signaling pathway ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.									
In Vivo	in C57BL/J6 n PAR4 antagor	PAR4 antagonist 4 (3-12 mg/kg, po, single dose) suppresses the bleeding time, exhibits no impact on the coagulation system in C57BL/J6 mice tail cutting model ^[1] . PAR4 antagonist 4 (2 mg/kg, iv or 12 mg/kg, po) shows pharmacokinetics profils as shown in table below: Pharmacokinetic Analysis of PAR4 antagonist 4 in ICR mice ^[1]									
	Route	Dose (mg/kg)	T _{1/2} (h)	T _{max} (h)	C _{max} (ng/mL)	AUC _{0→t} (ng∙h/mL)	Cl (mL/h·kg)	F (%)			
	i.v.	2 mg/kg	38.3	-	-	5386	180	-			
	p.o.	12 mg/kg	29.5	2	204	3042	-	9.61			
	MCE has not i	MCE has not independently confirmed the accuracy of these methods. They are for reference only.									
	Animal Model	:	C57BL/J6 mice tail cutting model ^[1]								
	Dosage:	:	3-12 mg/kg								
	Administratio	n:	po, single dose								
	Result:		Suppressed the bleeding time.								



REFERENCES

[1]. Chen P, et al., Discovery of 2,3-Dihydro[1,4]dioxino[2,3-g]benzofuran Derivatives as Protease Activated Receptor 4 (PAR4) Antagonists with Potent Antiplatelet Aggregation Activity and Low Bleeding Tendency. J Med Chem. 2024 Apr 11;67(7):5502-5537.

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

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