

Product Data Sheet

PAR4 antagonist 3

Cat. No.: HY-162408

Molecular Formula: $\mathsf{C}_{22}\mathsf{H}_{16}\mathsf{FN}_3\mathsf{O}_5\mathsf{S}$

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.

BIOLOGICAL ACTIVITY

Description	PAR4 antagonist 3 (Compound 36) is a selective antagonist for protease activated receptor 4 (PAR4). PAR4 antagonist 3 exhibits antiplatelet efficacy with IC_{50} of 26.1 nM. PAR4 antagonist 3 improves metabolic stablility in human liver microsomes with $T_{1/2}$ of 97.6 min ^[1] .
In Vitro	PAR4 antagonist 3 (4 μM) exhibits antagonistic effect on GPVI, that inhibits collagen-induced platelet aggregation signal

aling pathway[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo PAR4 antagonist 3 (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 3 (2 mg/kg, iv or 12 mg/kg, po) shows pharmacokinetics profils as shown in table below:

Pharmacokinetic Analysis of PAR4 antagonist 3 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	11.3	-	-	1250	1428	-
p.o.	12 mg/kg	7.32	1.67	325	3460	-	45

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Animal Model:	C57BL/J6 mice tail cutting model $^{[1]}$
Dosage:	3-12 mg/kg
Administration:	po, single dose
Result:	Suppressed the bleeding time.

EFERENCES				
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 med	dical applications. For research use only.	
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