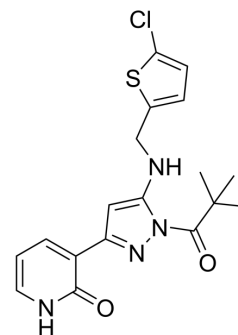


Thrombin inhibitor 6

Cat. No.:	HY-151983
CAS No.:	1628224-94-1
Molecular Formula:	C ₁₈ H ₁₉ ClN ₄ O ₂ S
Molecular Weight:	390.89
Target:	Thrombin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thrombin inhibitor 6 is a potent thrombin inhibitor (IC ₅₀ : 1 nM). Thrombin inhibitor 6 has the function as an anticoagulant ^[1] .
In Vitro	Thrombin inhibitor 6 (compound 73) is stable when incubated with CD-1 mouse and human microsomes (Clint (mouse) = 60 μL/min/mg; Clint (human)) = 17 μL/min/mg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Thrombin inhibitor 6 (compound 73) (9 mg/kg, i.v.) prolongs the tail bleeding time in CD-1 mice ^[1] . Thrombin inhibitor 6 (5 mg/kg, p.o.) shows F(%) of 22.8%, AUC of 713.3 h.ng/mL and C _{max} of 127 ng/mL in male CD-1 mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	CD-1 mice ^[1]
Dosage:	9 mg/kg
Administration:	Intravenous injection (i.v.)
Result:	The mice bled for 25 min following transection. Led to 1.5-fold increase of liberated whole blood cells.

REFERENCES

[1]. Short KM, et al. Discovery of novel N-acylpyrazoles as potent and selective thrombin inhibitors. Eur J Med Chem. 2022 Oct 27;246:114855.

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

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