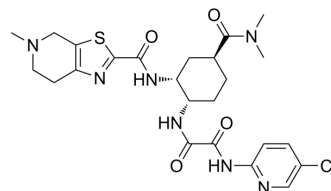


Edoxaban

Cat. No.:	HY-10264		
CAS No.:	480449-70-5		
Molecular Formula:	C ₂₄ H ₃₀ ClN ₇ O ₄ S		
Molecular Weight:	548		
Target:	Factor Xa; Thrombin		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (18.25 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.8248 mL	9.1241 mL	18.2482 mL
5 mM	0.3650 mL	1.8248 mL	3.6496 mL
10 mM	0.1825 mL	0.9124 mL	1.8248 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Edoxaban (DU-176b) is an orally active, highly potent, selective, and direct Factor Xa (FXa) inhibitor with K_i values of 0.561 and 2.98 nM for free human FXa and prothrombinase. Edoxaban exhibits more than 10,000-fold selectivity over other coagulation proteases. Edoxaban can be used in preventing thromboembolic disease research^[1].

IC₅₀ & Target

IC₅₀: 2.90 μM (platelet aggregation), K_i: 0.561 nM (free human FXa), 2.98 nM (prothrombinase), 0.715 nM (cynomolgus monkey FXa), 0.457 nM (rabbit FXa)^[1]

In Vitro

Edoxaban (1, 1 and 5 minutes respectively) prolongs PT, TT and APTT of human plasma in a concentration-dependent manner^[1].

Edoxaban inhibits thrombin-induced platelet aggregation, with an IC₅₀ of 2.90 μM^[1].

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

Cell Viability Assay^[1]

Cell Line: Human, rat, cynomolgus monkey and rabbit plasma; Human platelet

	Concentration:	
	Incubation Time:	1 and 5 minutes
	Result:	Antithrombin.
In Vivo	Edoxaban (0.5, 2.5 and 12.5 mg/kg; p.o.; once) significantly and dose-dependently reduces the thrombus formation and prolongs PT ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male Slc: Wistar rats (210-240 g); Male New Zealand White rabbits(2.5-3.5 kg) (Both are venous stasis thrombosis model) ^[1] .
	Dosage:	0.5, 2.5 and 12.5 mg/kg
	Administration:	Oral administration; once
	Result:	Inhibited exogenous FXa activity. Antithrombotic.

CUSTOMER VALIDATION

- Thromb Res. 2021 Jan;197:141-143.
- Molecules. 2023 Feb 28.
- Virology. 2023 Jun 21.
- Authorea. 2023 Apr 17.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Furugohri T, et al. DU-176b, a potent and orally active factor Xa inhibitor: in vitro and in vivo pharmacological profiles. J Thromb Haemost. 2008 Sep;6(9):1542-9.

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

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