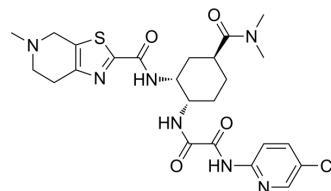


## Edoxaban

Cat. No.:	HY-10264		
CAS No.:	480449-70-5		
Molecular Formula:	C <sub>24</sub> H <sub>30</sub> ClN <sub>7</sub> O <sub>4</sub> S		
Molecular Weight:	548.06		
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	1.8246 mL	9.1231 mL	18.2462 mL
5 mM	0.3649 mL	1.8246 mL	3.6492 mL
10 mM	0.1825 mL	0.9123 mL	1.8246 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<sub>i</sub> 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<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 2.90 μM (platelet aggregation), K<sub>i</sub>: 0.561 nM (free human FXa), 2.98 nM (prothrombinase), 0.715 nM (cynomolgus monkey FXa), 0.457 nM (rabbit FXa)<sup>[1]</sup>

#### In Vitro

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

Edoxaban inhibits thrombin-induced platelet aggregation, with an IC<sub>50</sub> of 2.90 μM<sup>[1]</sup>.

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

Cell Viability Assay<sup>[1]</sup>

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<sup>[1]</sup>.  
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) <sup>[1]</sup> .
Dosage:	0.5, 2.5 and 12.5 mg/kg
Administration:	Oral administration; once
Result:	Inhibited exogenous FXa activity. Antithrombotic.

## CUSTOMER VALIDATION

- Elife. 2022 Mar 23:11:e77444.
- 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](http://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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA