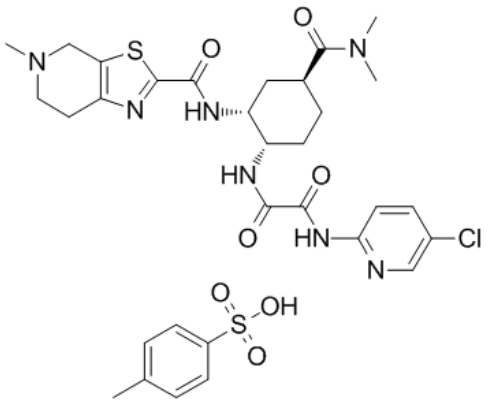
Product Data Sheet

Product Name: Edoxaban tosylate
Cat. No.: GC35962

Chemical Properties

Cas. No.	480449-71-6		
SMILES	O=C(N(C)C)[C@@H](CC1)C[C@H]([C@H]1NC(C(NC(C=C2)=NC=C2Cl)=O)=O)NC(C3=NC(CC4)=C(CN4C)S3)=O.O=S(C5=CC=C(C)C=C5)(O)=O		
Formula	$C_{31}H_{38}ClN_7O_7S_2$	M.Wt	720.26
Solubility	DMSO : 50 mg/mL (69.42 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Edoxaban(DU-176) is an oral factor Xa (FXa) inhibitor in clinical development for stroke preventionIC50 Value:Target: factor XaEdoxaban is an oral factor Xa (FXa) inhibitor in clinical development for stroke prevention in patients with atrial fibrillation, an elderly population that frequently receives aspirin (ASA) and/or nonsteroidal anti-inflammatory drugs for concurrent illnesses[1].in vitro: Edoxaban PK was not affected by concomitant low-dose ASA or naproxen, but

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high-dose ASA increased systemic exposure of edoxaban by approximately 30%. The effects of edoxaban on prothrombin time, activated partial thromboplastin time, international normalized ratio, anti-FXa, and intrinsic FXa activity were not influenced by administration with ASA or naproxen. Inhibition of platelet aggregation by high-dose ASA, low-dose ASA, or naproxen was not affected by edoxaban[1].in vivo: Forty-eight subjects, aged 18 to 45 years, received either edoxaban 60 mg once daily × 7 days (n = 24) or digoxin 0.25 mg twice daily × 2 days and once daily × 5 days (n = 24) and then concomitantly for 7 days. Serial blood and urine samples were collected for digoxin and edoxaban concentrations on days 7 and 14. Serial coagulation assays were measured for edoxaban on days 7 and 14. Edoxaban PK parameters demonstrated mild increases in area under the curve and peak concentrations of 9.5% and 15.6%, respectively[2],Clinical trial: Pharmacokinetics, biotransformation, and mass balance of edoxaban, a selective, direct factor Xa inhibitor, in humans was reported[3].

[1]. Mendell J, Lee F, Chen S, The Effects of the Antiplatelet Agents, Aspirin and Naproxen, on Pharmacokinetics and Pharmacodynamics of the Anticoagulant Edoxaban, a Direct Factor Xa Inhibitor. J Cardiovasc Pharmacol. 2013 Apr 23. [Epub ahead of print] [2]. Mendell J, Noveck RJ, Shi M. Pharmacokinetics of the direct factor Xa inhibitor edoxaban and digoxin administered alone and in combination. J Cardiovasc Pharmacol. 2012 Oct;60(4):335-41. [3]. Bathala MS, Masumoto H, Oguma T, Pharmacokinetics, biotransformation, and mass balance of edoxaban, a selective, direct factor Xa inhibitor, in humans. Drug Metab Dispos. 2012 Dec;40(12):2250-5.

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