Dabigatran etexilate mesylate

Cat. No.:	HY-10274A	
CAS No.:	872728-81-9	
Molecular Formula:	$C_{35}H_{45}N_{7}O_{8}S$	
Molecular Weight:	723.84	
Target:	Thrombin	
Pathway:	Metabolic Enzyme/Protease	
Storage:	4°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (34	DMSO : 25 mg/mL (34.54 mM; Need ultrasonic)					
		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.3815 mL	6.9076 mL	13.8152 mL		
		5 mM	0.2763 mL	1.3815 mL	2.7630 mL		
		10 mM	0.1382 mL	0.6908 mL	1.3815 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.45 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.45 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.45 mM); Clear solution						

Description Dabigatran etexilate mesylate (BIBR 1048MS) is an orally active proagent of Dabigatran (a direct inhibitor of thrombin). Dabigatran etexilate mesylate has anticoagulant effects and is used for the prophylaxis of venousthromboembolism and stroke due to atrial fibrillation ^[1] . In Vivo Dabigatran etexilate mesylate (BIBR 1048MS; oral; 10, 20 and 50 mg/kg for rats and 1, 2.5 and 5 mg/kg for monkeys) has	BIOLOGICAL ACTIV	
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In Vivo Dabigatran etexilate mesylate (BIBR 1048MS; oral; 10, 20 and 50 mg/kg for rats and 1, 2.5 and 5 mg/kg for monkeys) has	Description	Dabigatran etexilate mesylate has anticoagulant effects and is used for the prophylaxis of venousthromboembolism and
dose- and time-dependent anticoagulant effects and has maximum effects between 30 and 120 min after administration, respectively ^[1] . Dabigatran etexilate mesylate maximally and significantly prolongs partial thromboplastin time (aPTT) to 25.2, 38.4 and 78 s in 30 min after 10, 20 and 50 mg/kg oral doses, respectively ^[1] .	In Vivo	dose- and time-dependent anticoagulant effects and has maximum effects between 30 and 120 min after administration, respectively ^[1] . Dabigatran etexilate mesylate maximally and significantly prolongs partial thromboplastin time (aPTT) to 25.2, 38.4 and 78.3



Product Data Sheet

Dabigatran etexilate mesylate maximally prolongs the aPTT to 34.3 s, 44.0 s, and 63.0 s, respectively, 2h after 1, 2.5 or mg/kg doses in the monkey ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
Animal Model:	Male rats (280-350 g) and rhesus monkeys of either sex (3-8 kg) $^{\left[1 ight]}$
Dosage:	10, 20 and 50 mg/kg for rats and 1, 2.5 and 5 mg/kg for monkeys
Administration:	Oral
Result:	Had dose- and time-dependent anticoagulant effects.

CUSTOMER VALIDATION

- Biochem Pharmacol. 2016 Nov 1;119:76-84.
- Int J Mol Sci. 2023, 24(3), 1900.
- J Chromatogr Sci. 2016 Jul 29;54(9):1648-1651.

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REFERENCES

[1]. Blair HA, Keating GM. Dabigatran Etexilate: A Review in Nonvalvular Atrial Fibrillation. Drugs. 2017;77(3):331-344.

[2]. Wienen W, et al. In-vitro profile and ex-vivo anticoagulant activity of the direct thrombin inhibitor dabigatran and its orally active prodrug, dabigatran etexilate. Thromb Haemost. 2007 Jul;98(1):155-62.

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

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