

产品名称：达比加群  
产品别名：Dabigatran

生物活性:					
Description	Dabigatran (BIBR 953), an oral anticoagulant, is a reversible, potent, competitive direct thrombin inhibitor (Ki=4.5 nM). Dabigatran (BIBR 953) also inhibits thrombin-induced platelet aggregation (IC50=10 nM)[1][2].				
IC50 & Target	Ki: 4.5 nM (thrombin)[1]				
In Vitro	Dabigatran (BIBR 953) shows concentration-dependent anticoagulant effects in various species in vitro, doubling the activated partial thromboplastin time (aPTT), prothrombin time (PT) and ecarin clotting time (ECT) in human platelet-poor plasma at concentrations of 0.23, 0.83 and 0.18 μM, respectively[1].				
In Vivo	Dabigatran (0.01-0.1 mg/kg; i.v.) inhibits clot formation with an ED50 of 0.033 mg/kg in Wessler model[3].				
	Animal Model:	Male rats (Wessler model)[3]			
	Dosage:	0.01, 0.03, 0.05 and 0.1 mg/kg			
	Administration:	Intravenous injection			
	Result:	Inhibited clot formation with an ED50 of 0.033 mg/kg.			
Solvent&Solubility	<b>In Vitro:</b> <b>0.1 M HCL : 12.5 mg/mL (26.51 mM; Need ultrasonic)</b> <b>H2O : &lt; 0.1 mg/mL (insoluble)</b> <b>DMSO : &lt; 1 mg/mL (insoluble or slightly soluble)</b>				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
		1 mM	2.1208 mL	10.6042 mL	21.2085 mL
		5 mM	0.4242 mL	2.1208 mL	4.2417 mL
		10 mM	0.2121 mL	1.0604 mL	2.1208 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。				
	源叶生物				
References	<p>[1]. <a href="#">Wienen W, Stassen JM, Pripke H. 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.</a></p> <p>[2]. <a href="#">Hauel NH, et al. Structure-based design of novel potent nonpeptide thrombin inhibitors. J Med Chem. 2002 Apr 25;45(9):1757-66.</a></p> <p>[3]. <a href="#">Wienen W, et al. Effects of the direct thrombin inhibitor dabigatran and its orally active prodrug, dabigatran etexilate, on thrombus formation and bleeding time in rats. Thromb Haemost. 2007 Aug;98(2):333-8.</a></p>				