

Catalog Number: HZ-3010

Data Sheet



HumanKine® recombinant human Thrombin

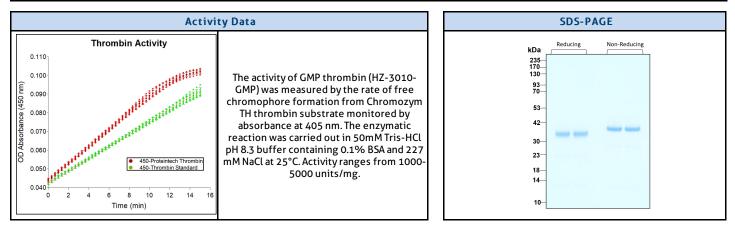
(Coagulation Factor IIa) protein

Product Description	Animal Component-Free Human cell expressed Tag-Free Endotoxin Free								
			Product Desc	ription					

Animal-free Recombinant Human Thrombin is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 36 kDa. Production in human 293 cells ensures authentic glycosylation. Thrombin is a coagulation protein and a serine protease that catalyzes numerous coagulation correlated reactions. Thrombin also regulates the behavior of additional cells through protease activated receptors and endorses platelet activation. This recombinant protein is produced in a human cell expression system with serum-free, chemically defined media.1

Alternative Names	Coagulation factor IIa, F2, Prothrombin, PT, Thrombin	
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived Thrombin (Coagulation Factor IIa) protein	
Species Reactivity	human	

	Specifications					
Test	Method	Specification				
Activity	Rate of free chromophore formation from Chromozym TH thrombin substrate monitored by absorbance at 405 nm	1000-5000 units/mg				
Molecular Mass	SDS-PAGE	34 kDa reduced, 36 kDa non-reduced, monomer, glycosylated				
Purity	SDS-PAGE	> 95%				
Endotoxin	LAL	<1 EU/µg				



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Preparation							
Shipping Temperature	Dry Ice						
Formulation	20 mM MES pH 6.0 + 500 mM Choline Chloride, See Certificate of Analysis for details						
Reconstitution	Not Applicable. Product provided in liquid format.						
Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)				
	Liquid	-80°C	Until Expiry Date				
	Liquid	-20°C	6 months				
	Liquid	4°C	1 week				
	Avoid repeated freeze-thaw cycles.						

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