

Catalog Number: HZ-3010

Data Sheet



HumanKine® recombinant human Thrombin

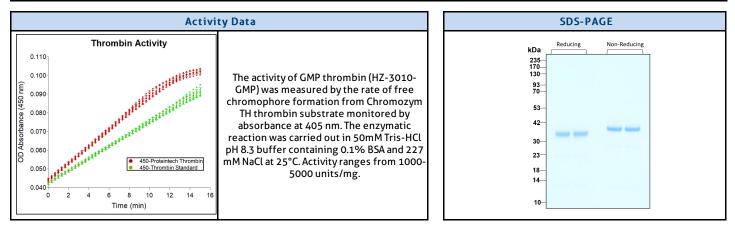
(Coagulation Factor IIa) protein

Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
	Product Desc	rintion	

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 II, F2, Prothrombin, PT, Thrombin
Source Human I		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.					
	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)			
	Liquid	-80°C	Until Expiry Date			
Stability and Storage	Liquid	-20°C	6 months			
	Liquid	4°C	1 week			
	Avoid repeated freeze-thaw cycles.					

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