

**HumanKine[®] Thrombin (Coagulation Factor II)
(Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
-----------------------	----------------------	----------	----------------

Product Description

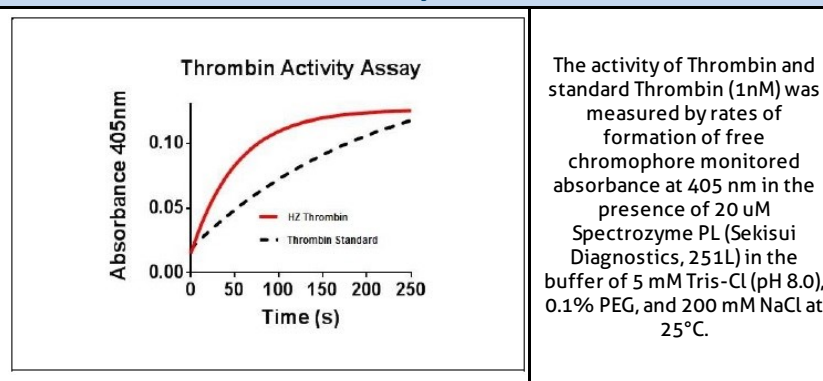
Animal-free Recombinant Human Thrombin is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 36 kDa. Production in human 293 cells ensures authentic glycosylation. Thrombin is a coagulation protein and a serine protease that catalyzes numerous coagulation correlated 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 Embryonic Kidney cells (HEK293), HEK293-derived Thrombin (Coagulation Factor II) protein

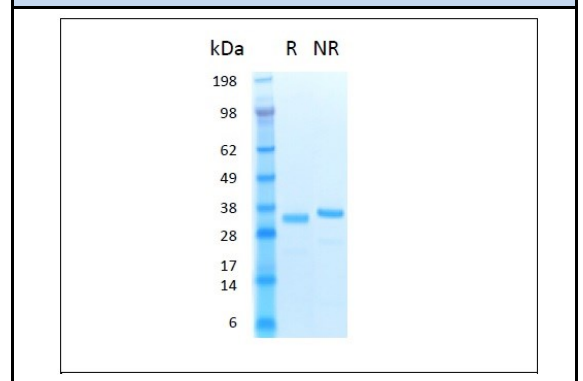
Specifications

Test	Method	Specification
Activity	The activity of thrombin and standard thrombin (1nM) was measured by rates of formation of free chromophore monitored absorbance at 405 nm in the presence of 20 uM Spectrozyme PL (Sekisui Diagnostics, 251L) in the buffer of 5 mM Tris-Cl (pH 8.0), 0.1% PEG, and 200 mM NaCl at 25°C	N/A
Molecular Mass	SDS-PAGE	36 kDa, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	20 mM MES pH 6.0 + 500 mM Choline Chloride, See Certificate of Analysis for details
Reconstitution	N/A

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

www.ptglab.com

Document #: FR-QA118-101 Rev 0
Data Sheet Version #: 1

Proteintech Group, Inc.
5500 Pearl Street, Suite 400 Rosemont, IL 60612
t: 1-888-478-4522; f: 1-312-455-8408
Email: proteintech@ptglab.com