Thrombin Recombinant Protein | F2 recombinant protein

Recombinant Human Thrombin, HEK

CATALOG #	HOST
AAA39049	**HEK (HumaXpress)**

PRODUCT SYNONYMS

Thrombin; Recombinant Human Thrombin; HEK; Thrombin Human; Thrombin Human Recombinant; Prothrombin; EC 3.4.21.5; Coagulation factor II; F2; PT; THPH1; RPRGL2; F2 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK (HumaXpress)
Form/Format	The Thrombin solution (1mg/ml) contains 20mM MES, pH6.0 and 500mM Choline Chloride. Sterile Filtered colorless solution.
Sequence Length	622
Enzyme Assay	Thrombin (1nM) was assayed using FPRpNA as a substrate (20uM) in 5mM Tris-HCl (pH8.0), 0.1% PEG, 200mM NaCl at 25 degree C and monitored at 405 nm.
Preparation and Storage	Store frozen at -20 degree C to -80 degree C for long periods of time. Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for F2 recombinant protein	**Description:** Recombinant Human Thrombin produced in HEK cells, having a total molecular weight of 36kDa. The Thrombin is purified by proprietary chromatographic techniques. **Introduction:** Thrombin enzyme (Activated Factor IIa) is an important clotting promoter that controls the transformation of soluble fibrinogen to insoluble active fibrin strands. Thrombin is a coagulation protein and a serine protease (EC 3.4.21.5) that catalyzes many coagulation-related reactions. Thrombin triggers factor-XI, factor-V, Factor-XIII and factor-VIII. Thrombin endorses platelet activation, using activation of protease-activated receptors on the platelet. As a result of its high proteolytic specificity, thrombin has become an important biochemical protein. The thrombin cleavage site (Leu-Val-Pro-Arg-Gly-Ser) is widely used in linker regions of recombinant fusion protein constructs. After the purification of the fusion protein, thrombin is used to cleave between the Arginine and Glycine residues of the cleavage site, efficiently removing the purification tag from the protein of interest with a high degree of specificity.
Product Categories/Family for F2 recombinant protein	Recombinant & Natural Proteins; Natural Proteins; Thrombin

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503635
NCBI GeneID	2147
NCBI Accession #	NP_000497.1
NCBI GenBank Nucleotide #	NM_000506.3
UniProt Accession #	P00734; Q4QZ40; Q53H04; Q53H06; Q69EZ7; Q7Z7P3; Q9UCA1; B2R7F7; B4E1A7
Molecular Weight	70,037 Da
NCBI Official Full Name	prothrombin preproprotein

NCBI Official Synonym Full Names	coagulation factor II (thrombin)
NCBI Official Symbol	F2
NCBI Official Synonym Symbols	PT; THPH1; RPRGL2
NCBI Protein Information	prothrombin; prepro-coagulation factor II; prothrombin B-chain; serine protease
UniProt Protein Name	Prothrombin
UniProt Gene Name	**F2**
UniProt Entry Name	THRB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/f2-recombinant-protein/39049