

Bioactive

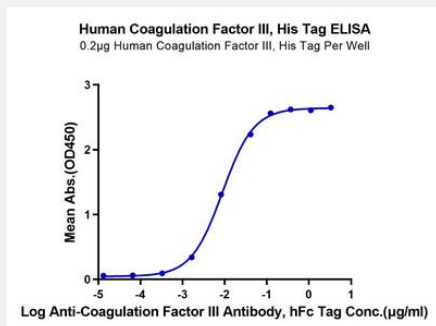
HuPro®

F3 (Human) Recombinant Protein

Catalog # P9737

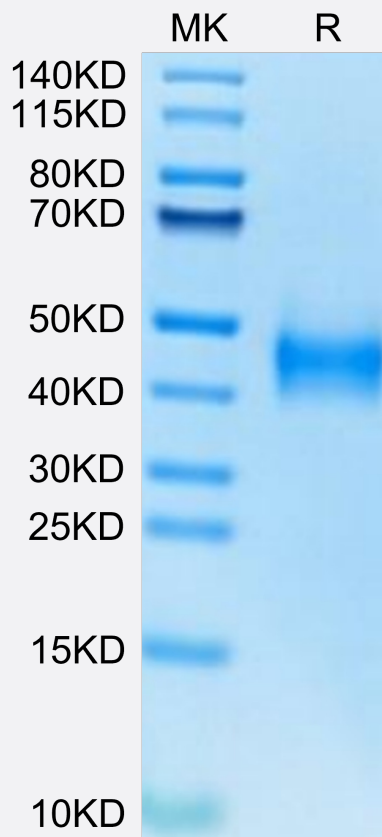
Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human Coagulation Factor III, His Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-Coagulation Factor III Antibody, hFc Tag with the EC50 of 8.8 ng/mL determined by ELISA.



Tris-Bis PAGE

Human Coagulation Factor III on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human F3 (P13726-1, 33 a.a. - 251 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	SGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQISTKSGDWKSKCFYTTDTECDLTDEMVDVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPTIQSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLTYLYWKSSSSGKKTAKTNTNEFLIDVDKGENYCFSVQAVIPSRVNRKSTDSPVECMGQEKGEFRE
Host	Human
Theoretical MW (kDa)	25.89
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 8.8 ng/mL, measured by ELISA at 2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE Tris-Bis PAGE Human Coagulation Factor III on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

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- Functional Study
- SDS-PAGE

Gene Info — F3

Entrez GeneID [2152](#)

Protein Accession# [P13726-1](#)

Gene Name F3

Gene Alias CD142, TF, TFA

Gene Description coagulation factor III (thromboplastin, tissue factor)

Omim ID [134390](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. [provided by RefSeq]

Other Designations OTTHUMP00000012426|coagulation factor III|tissue factor

Pathway

- [Complement and coagulation cascades](#)

Disease

- [Acute Disease](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)

- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Chorioamnionitis](#)
- [Coronary Thrombosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hemorrhage](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Myocardial Ischemia](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Postoperative Complications](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Renal Insufficiency](#)
- [Stroke](#)
- [Thrombosis](#)
- [Vascular Diseases](#)
- [Werner syndrome](#)