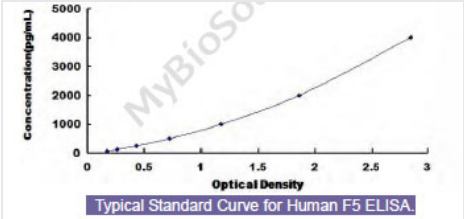
Coagulation Factor V (F5) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Coagulation Factor V (F5), ELISA Kit
Full Product Name	Human Coagulation Factor V (F5) ELISA Kit
Product Gene Name	F5 elisa kit
Product Synonym Names	FV; FVL; PCCF; Proaccelerin; Labile Factor; Factor V Leiden; Accelerator Globulin; Activated protein C cofactor; Proaccelerin, labile factor
Species Reactivity	Human
Assay Type	Sandwich
Samples	Plasma.
Detection Range	62.5-4000pg/mL
Sensitivity	23.9pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of F5. No significant cross-reactivity or interference between F5 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level F5 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level F5 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	251,703 Da
OMIM	M16967 mRNA
3D Structure	ModBase 3D Structure for P12259
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for F5 elisa kit	Intended Uses: This kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of F5 in human plasma. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to F5. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to F5. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain F5, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of F5 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of F5 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for F5 purchase	MBS455638 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Coagulation Factor V (F5) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing F5. The ELISA analytical biochemical technique of the MBS455638 kit is based on F5 antibody-F5 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect F5 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, F5. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of F5 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for F5. It may not necessarily be applicable to this product.

NCBI GI #	105990535
NCBI GeneID	2153
NCBI Accession #	NP_000121.2
UniProt Primary Accession #	P12259
UniProt Secondary Accession #	Q14285; Q2EHR5; Q5R346; Q5R347; Q6UPU6; Q8WWQ6; A8K6E8
UniProt Related Accession #	P12259
GenBank Nucleotide #	NM_000130.4
NCBI Official Full Name	coagulation factor V preproprotein
NCBI Official Synonym Full Names	coagulation factor V
NCBI Official Symbol	F5
NCBI Official Synonym Symbols	FVL; PCCF; THPH2; RPRGL1
UniProt Protein Name	Coagulation factor V
UniProt Synonym Protein Names	Activated protein C cofactor; Proaccelerin, labile factor
Protein Family	Coagulation factor
UniProt Gene Name	F5
NCBI Protein Information	coagulation factor V
NCBI Summary for F5	This gene encodes an essential cofactor of the blood coagulation cascade. This factor circulates in plasma, and is converted to the active form by the release of the activation peptide by thrombin during coagulation. This generates a heavy chain and a light chain which are held together by calcium ions. The activated protein is a cofactor that participates with activated coagulation factor X to activate prothrombin to thrombin. Defects in this gene result in either an autosomal recessive hemorrhagic diathesis or an autosomal dominant form of thrombophilia, which is known as activated protein C resistance. [provided by RefSeq, Oct 2008]
UniProt Comments for F5	Central regulator of hemostasis. It serves as a critical cofactor for the prothrombinase activity of factor Xa that results in the activation of prothrombin to thrombin.
Research Articles on F5	**1.** Our data demonstrated a significantly increased risk of hemodialysis vascular access thrombosis in carriers of the mutant FV (G1691A and A4070G) polymorphisms (P< 0.05)

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-elisa-kits/coagulation-factor-v-f5/455638