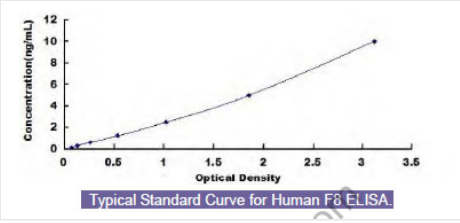
Coagulation Factor VIII (F8) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Coagulation Factor VIII (F8), ELISA Kit
Full Product Name	Human Coagulation Factor VIII (F8) ELISA Kit
Product Gene Name	F8 elisa kit
Product Synonym Names	FVIII; AHF; HEMA; F8B; F8C; Antihemophilic Globulin; Hemophilia A; Anti-Hemophilic Factor A; FVIII Procoagulant Component; F8 Protein
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	plasma
Detection Range	0.156-10ng/mL
Sensitivity	<0.055ng/mL.
Specificity	This assay has high sensitivity and excellent specificity for detection of F8. No significant cross-reactivity or interference between F8 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 F8 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 F8 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	24,641 Da
OMIM	M14113 mRNA
3D Structure	ModBase 3D Structure for P00451
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for F8 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of F8 in human plasma. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to F8. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to F8. 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 F8, 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 F8 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of F8 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 F8 purchase	MBS456062 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Coagulation Factor VIII (F8) 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 F8. The ELISA analytical biochemical technique of the MBS456062 kit is based on F8 antibody-F8 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect F8 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, F8. 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 F8 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for F8. It may not necessarily be applicable to this product.

NCBI GI #	4503647
NCBI GeneID	2157
NCBI Accession #	NP_000123.1
UniProt Primary Accession #	P00451
UniProt Secondary Accession #	Q14286; Q5HY69
UniProt Related Accession #	P00451
GenBank Nucleotide #	NM_000132.3
NCBI Official Full Name	coagulation factor VIII isoform a preproprotein
NCBI Official Synonym Full Names	coagulation factor VIII
NCBI Official Symbol	F8
NCBI Official Synonym Symbols	AHF; F8B; F8C; HEMA; FVIII; DXS1253E
UniProt Protein Name	Coagulation factor VIII
UniProt Synonym Protein Names	Antihemophilic factor; AHF
Protein Family	Coagulation factor
UniProt Gene Name	F8
UniProt Synonym Gene Names	F8C; AHF
NCBI Protein Information	coagulation factor VIII
NCBI Summary for F8	This gene encodes coagulation factor VIII, which participates in the intrinsic pathway of blood coagulation; factor VIII is a cofactor for factor IXa which, in the presence of Ca+2 and phospholipids, converts factor X to the activated form Xa. This gene produces two alternatively spliced transcripts. Transcript variant 1 encodes a large glycoprotein, isoform a, which circulates in plasma and associates with von Willebrand factor in a noncovalent complex. This protein undergoes multiple cleavage events. Transcript variant 2 encodes a putative small protein, isoform b, which consists primarily of the phospholipid binding domain of factor VIIIc. This binding domain is essential for coagulant activity. Defects in this gene results in hemophilia A, a common recessive X-linked coagulation disorder. [provided by RefSeq, Jul 2008]
UniProt Comments for F8	Factor VIII, along with calcium and phospholipid, acts as a cofactor for F9/factor IXa when it converts F10/factor X to the activated form, factor Xa.

Research Articles on F8	**1.** von Willebrand factor binds to the surface of dendritic cells and modulates peptide presentation of factor VIII.
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-viii-f8/456062