



Recombinant Human Coagulation factor XI (F11) (Active)

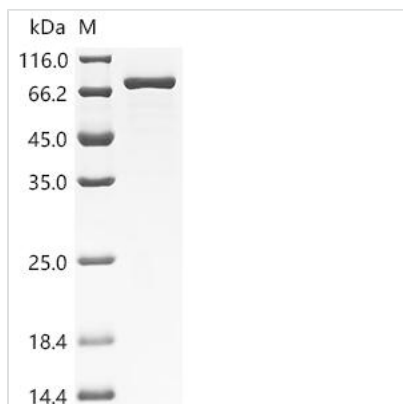
Product Code	CSB-MP007916HU(A4)
Abbreviation	Recombinant Human F11 protein (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P03951
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	<p>① Measured by its binding ability in a functional ELISA. Immobilized Human F11 at 2 µg/mL can bind Anti-F11 recombinant antibody (CSB-RA007916MA1HU). The EC50 is 0.2442-0.2820 ng/mL.</p> <p>② Measured by its ability to cleave the fluorogenic peptide substrate, t-butylloxycarbonyl-Ile-Glu-Gly-Arg-7-amido-4-methylcoumarin (Boc-IEGR-AMC). The specific activity is >300 pmol/min/µg.</p>
Purity	≥ 95% as determined by SDS-PAGE.
Sequence	<p>ECVTQLLKDTCFEGGDITTVFTPSAKYCQVVCTYHPRCLLFTFTAESPSEDPTR WFTCVLKDSVTETLPRVNRATAISGYSFKQCSHQISACNKDIYVDLDMKGINYN SSVAKSAQECQERCTDDVHCHFFTYATRQFPSLEHRNICLLKHTQTGTPTRIT KLDKVVSGFSLKSCALSNLACIRDIFPNTVFADSNIDSVMAPDAFVCGRICTHH PGCLFFTTFFSQEWPKESQRNLCLLKTSEGLPSTRIKSKALSGFSLQSCRHSI PVFCHSSFYHDTDFLGEELDIVAAKSHEACQKLCTNAVRCQFFTYTPAQASCN EGKGKCYLKLSSNGSPTKILHGRGGISGYTLRLCKMDNECTTKIKPRIVGGTAS VRGEWPWQVTLHTTSPTQRHLCGGSIIGNQWILTAACHCFYGVESPKILRVVYSG ILNQSEIKEDTSFFGVQEIIIHDQYKMAESGYDIALLETTVNYTDSQRPICLPS KGDRNVIYTDCWVTGWGYRKLRLDKIQNTLQKAKIPLVTNEECQKRYRGHKITH KMICAGYREGGKDACKGDSGGPLSCKHNEVWHLVGITSWGEGCAQRERPGV YTNVVEYVDWILEKTQAV</p>
Source	Mammalian cell
Target Names	F11
Expression Region	19-625aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged


Mol. Weight

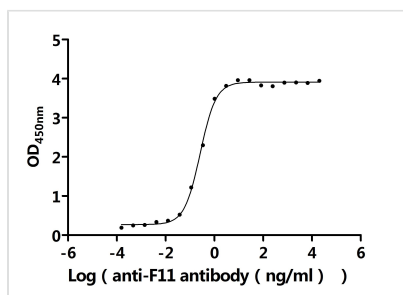
69.4 kDa

Protein Length

Full Length of Mature Protein

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.


Activity

Measured by its binding ability in a functional ELISA. Immobilized Human F11 at 2 µg/ml can bind Anti-F11 recombinant antibody (CSB-RA007916MA1HU). The EC₅₀ is 0.2442-0.2820 ng/mL.

Enzyme	Human F11 (CSB-MP007916HU(A4))	0.8µg/well
Substrate	Boc-IEGR-AMC (GL Biochem (Shanghai) Ltd , 1166018)	100µM
Reaction system	/	100µl
Reaction conditions	37°C and 5min in dark	/
Activation Buffer	50mM Tris , 10mM CaCl ₂ , 150mM NaCl , pH 7.5	/
Assay Buffer	50mM Tris , 250mM NaCl , 1mM EDTA , pH 7.5	
Stop Buffer	120mM EDTA , pH 8.0	
Enzyme activity	>300pmol/min/µg	/

Activity

Measured by its ability to cleave the fluorogenic peptide substrate, t-butyloxycarbonyl-Ile-Glu-Gly-Arg-7-amido-4-methylcoumarin (Boc-IEGR-AMC). The specific activity is >300 pmol/min/µg.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.