



# Recombinant Human Coagulation factor XI (F11) (Active)

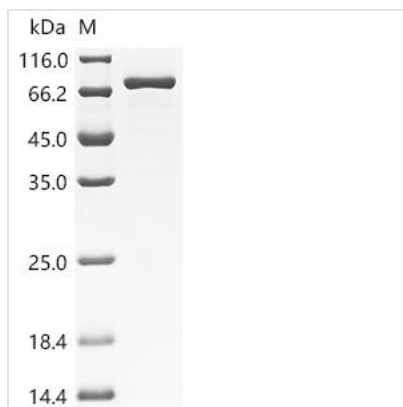
<b>Product Code</b>	CSB-MP007916HU(A4)
<b>Abbreviation</b>	Recombinant Human F11 protein (Active)
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P03951
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	<p>①Measured 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>②Measured 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 &gt;300 pmol/min/µg.</p>
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE.
<b>Sequence</b>	ECVTQLLKDTCFEGGDITTVFTPSAKYCQVVCTYHPRCLLFTFTAESPSEDPTR WFTCVLKDSVTETLPRVNRATAISGYSFKQCSHQISACNKDIYVDLDMKGINYN SSVAKSAQECQERCTDDVHCHFFTYATRQFPSLEHRNICLLKHTQTGTPTTRIT KLDKVVSGFSLKSCALSNLACIRDIFPNTVFADSNIDSVMAPDAFVCGRICTHH PGCLFFTTFFSQEWPKESQRNLCLLKTSEGLPSTRIKSKALSGFSLQSCRHSI PVFCHSSFYHDTDFLGEELDIVAAKSHEACQKLCTNAVRCQFFTYTPAQASCN EGKGKCYLKLSSNGSPTKILHGRGGISGYTLRLCKMDNECTTKIKPRIVGGTAS VRGEWPWQVTLHTTSPTQRHLCCGSIIGNQWILTAHCFYGVESPKILRVYSG ILNQSEIKEDTSFFGVQEIIHDQYKMAESGYDIALLKLETTVNYTDSQRPICLPS KGDRNVIYTDCWVTGWGYRKLRLDKIQNTLQAKIPLVTNEECQKRYRGHKITH KMICAGYREGGKDACKGDSGGPLSCKHNEVWHLVGITSWGEGCAQRERPGV YTNVVEYVDWILEKTQAV
<b>Source</b>	Mammalian cell
<b>Target Names</b>	F11
<b>Expression Region</b>	19-625aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.
<b>Tag Info</b>	C-terminal 10xHis-tagged


**Mol. Weight**

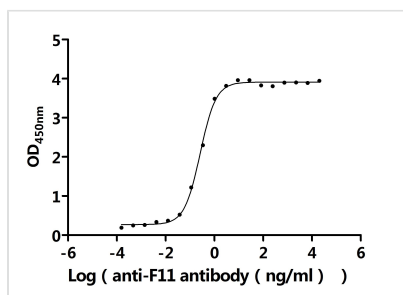
69.4 kDa

**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 EC<sub>50</sub> 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 <sub>2</sub> , 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.