



# Recombinant *Macaca mulatta* Coagulation factor XI (Active)

<b>Product Code</b>	CSB-MP5433MOW
<b>Abbreviation</b>	Recombinant Rhesus macaque 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>	G7MSF8
<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>	<i>Macaca mulatta</i> (Rhesus macaque)
<b>Biological Activity</b>	<p>① Measured by its binding ability in a functional ELISA. Immobilized <i>Macaca mulatta</i> F11 at 2 µg/mL can bind Anti-F11 recombinant antibody (CSB-RA007916MA1HU). The EC50 is 0.5654-0.6444 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 &gt;150 pmol/min/µg.</p>
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
<b>Sequence</b>	<p>ECVTRLFKDIHFEGGDIATVFTPSAKHCQVVCTHHPRCLLFTFTGESASEDPTQ  WFTCVLKDSVTETLPRVNRGTGAISGYSFKQCSHQISACNKDIYVDLDMKGINYN  SSLATSAQECQERCTDDVHCHFFTYATRQFPSLEHRNICLLKHTQTGTPTGIM  KLDKVVTFGSLKSCALSNLACIRDVFPNTVFADSNIDSVMAPDAFVCRRICHTH  PGCLFFTTFFSQEWPKESQRNLCLLKTSEGLPRTRIKKSKALSGFSLQSCRHSI  PVFCHSSFYHDTDFLGEELDIVAVKGHEACQKLCTNAVRCQFFTYAPAQASCN  EGKGKCYLKLSSNGSPTKILRGTGGISGYTLRLCKMDNECTTKIKPRIVGGTAS  VRGEWPWQVTLHTTSPTQRHLCGGSIIGNQWILTAACHCFYGVESPKILRVYIGI  LNQSEIKEDTSFFGVQEIIHDQYKMAESGYDIALLKLETTVNYTDSQRPICLPSK  GDRNVIYTDWVTGWGYRKLDRDKIQNTLQKAKIPLVTNDECQKRYRGHKITHK  MICAGYREGGKDACKGDSGGPLSCKHNEVWHLVGITSWGEGCAQRERPGVY  TNVLEYVDWILEKTQA</p>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	TrEMBL
<b>Expression Region</b>	19-624aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal 10xHis-tagged



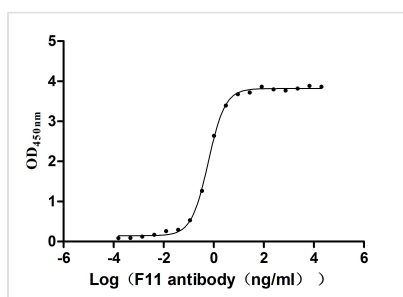
**Mol. Weight** 69.3 kDa

**Protein Length** Full Length of Mature Protein

**Image**



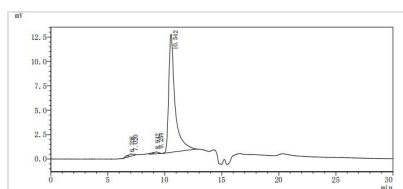
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



**Activity**  
Measured by its binding ability in a functional ELISA. Immobilized Macaca mulatta F11 at 2 µg/ml can bind Anti-F11 recombinant antibody (CSB-RA007916MA1HU). The EC<sub>50</sub> is 0.5654-0.6444 ng/mL.

<b>Enzyme</b>	Macaca mulatta F11 (CSB-MPS433MOW)	0.8µg/well
<b>Substrate</b>	Boc-IEGR-AMC (GL Biochem (Shanghai) Ltd , 1166018)	100µM
<b>Reaction system</b>	/	100µl
<b>Reaction conditions</b>	37°C and 5min in dark	/
<b>Activation Buffer</b>	50mM Tris , 10mM CaCl <sub>2</sub> , 150mM NaCl , pH 7.5	/
<b>Assay Buffer</b>	50mM Tris , 250mM NaCl , 1mM EDTA , pH 7.5	
<b>Stop Buffer</b>	120mM EDTA , pH 8.0	
<b>Enzyme activity</b>	>150pmol/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 >150 pmol/min/µg.



The purity of TrEMBL was greater than 95% as determined by SEC-HPLC

**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.