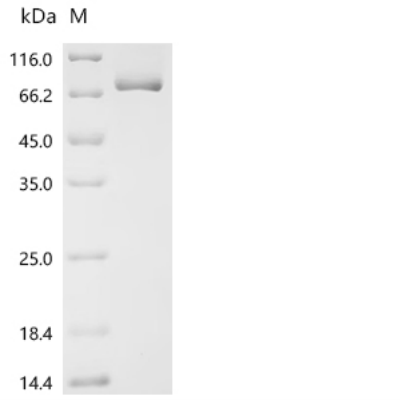
Recombinant Macaca mulatta Coagulation factor XI (Active)

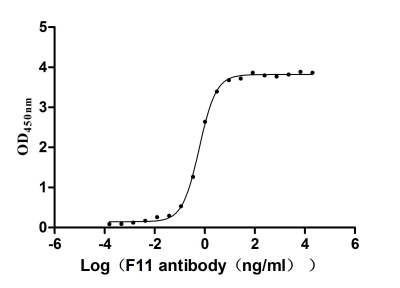
Product Code	CSB-MP5433MOW
Abbreviation	Recombinant Rhesus macaque F11 protein (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	G7MSF8
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	Macaca mulatta (Rhesus macaque)
Biological Activity	①Measured 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 EC50 is 0.5654-0.6444 ng/mL. ②Measured 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.
Purity	≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.
Sequence	ECVTRLFKDIHFEGGDIATVFTPSAKHCQVVCTHHPRCLLFTFTGESASEDPTQ WFTCVLKDSVTETLPRVNRTGAISGYSFKQCSHQISACNKDIYVDLDMKGINYN SSLATSAQECQERCTDDVHCHFFTYATRQFPSLEHRNICLLKHTQTGTPTGIM KLDKVVTGFSLKSCALSNLACIRDVFPNTVFADSNIDSVMAPDAFVCRRICTHH PGCLFFTFFSQEWPKESQRNLCLLKTSESGLPRTRIKKSKALSGFSLQSCRHSI PVFCHSSFYHDTDFLGEELDIVAVKGHEACQKLCTNAVRCQFFTYAPAQASCN EGKGKCYLKLSSNGSPTKILRGTGGISGYTLRLCKMDNECTTKIKPRIVGGTAS VRGEWPWQVTLHTTSPTQRHLCGGSIIGNQWILTAAHCFYGVESPKILRVYIGI LNQSEIKEDTSFFGVQEIIIHDQYKMAESGYDIALLKLETTVNYTDSQRPICLPSK GDRNVIYTDCWVTGWGYRKLRDKIQNTLQKAKIPLVTNDECQKRYRGHKITHK MICAGYREGGKDACKGDSGGPLSCKHNEVWHLVGITSWGEGCAQRERPGVY TNVLEYVDWILEKTQA
Source	Mammalian cell
Target Names	TrEMBL
Expression Region	19-624aa
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	69.3 kDa
Protein Length	Full Length of Mature Protein

Image



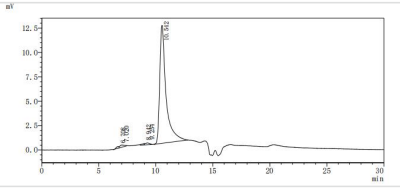
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



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_{50} is 0.5654-0.6444 ng/mL.

Enzyme	Macaca mulatta F11 (CSB-MP5433MOW)	0.8μg/well
Substrate	Boc-IEGR-AMC (GL Biochem (Shanghai) Ltd , 1166018)	100μM
Reaction system	/	100μl
Reaction conditions	37℃ 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	>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.