



Recombinant Human Coagulation factor XI (F11) (Active)

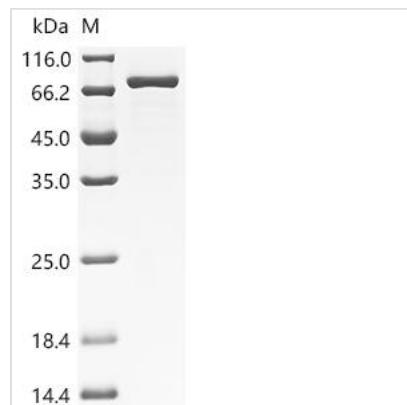
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|----------------------------|---|
| Product Code | CSB-MP007916HU(A4) |
| Abbreviation | Recombinant Human F11 protein (Active) |
| Storage | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the 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>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-butyloxycarbonyl-Ile-Glu-Gly-Arg-7-amido-4-methylcoumarin (Boc-IEGR-AMC). The specific activity is >300 pmol/min/µg.</p> |
| Purity | Greater than 95% as determined by SDS-PAGE. |
| Sequence | ECVTQLLKDTCFEGGDITTVFTPSAKYCQVVCTYHPRCLLFTTAESPSEDPTR WFTCVLKDSVTETLPRVNRTAAISGYSFKQCSHQISACNKDIYVDLDMKGINYNS SSVAKSAQECQERCTDDVHCHFFTYATRQFPSLEHRNICLLKHTQTGTPTTRIT KLDKVVSFGFSLKSCALSNLACIRDIFPNTVFADSNIDSVMAPDAFVGCRICTHH PGCLFFTFSSQEWPKESQRNLCLLKTESGLPSTRIKKSKALSGFSLQSCRHSI PVFCHSSFYHDTDFLGEELDIVAAKSHEACQKLCTNAVRCQFFTYTPAQASCN EGKGKCYLKLSNSNGSPTKILHGRGGISGYTLRLCKMDNECTTKIKPRIVGGTAS VRGEWPWQVTLHTTSPTQRHLCGGSIIGNQWILTAACFYGVESPKILRVYSG ILNQSEIKEDETSFFGVQEIIIDQYKMAESGYDIALLKLETTVNYTDSQRPICLPS KGDRNVIYTDCWVTGWGYRKLRDKIQNTLQKAKIPLVTNEECQKRYRGHKITH KMICAGYREGGKDACKGDSGGPLSCKHNEVWHLVGITSWGECAQRERPGV YTNVVEYVDWILEKTQAV |
| Source | Mammalian cell |
| Target Names | F11 |
| Expression Region | 19-625aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week. |
| Tag Info | C-terminal 10xHis-tagged |


Mol. Weight

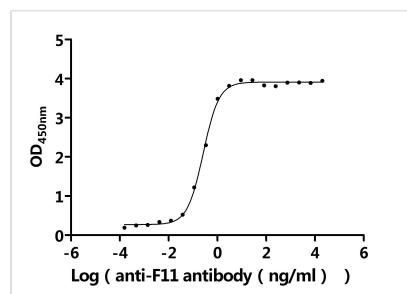
69.4 kDa

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 μ g/ml can bind Anti-F11 recombinant antibody (CSB-RA007916MA1HU). The EC₅₀ is 0.2442-0.2820 ng/mL.

| | | |
|---------------------|--|------------------|
| Enzyme | Human F11 (CSB-MP007916HU(A4)) | 0.8 μ g/well |
| Substrate | Boc-IEGR-AMC (GL Biochem (Shanghai) Ltd., 1166018) | 100 μ M |
| Reaction system | / | 100 μ l |
| 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/ μ g | / |

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/ μ g.

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.