



# Recombinant Mouse Mannan-binding lectin serine protease 2 (Masp2)

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| <b>Product Code</b>      | CSB-EP856307MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Relevance</b>         | Serum protease that plays an important role in the activation of the complement system via mannose-binding lectin. After activation by auto-catalytic cleavage it cleaves C2 and C4, leading to their activation and to the formation of C3 convertase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Abbreviation</b>      | Recombinant Mouse Masp2 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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>       | Q91WP0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Alias</b>             | MBL-associated serine protease 2 Mannose-binding protein-associated serine protease 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen Species</b> | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sequence</b>          | SKWPEPVFGRLVSPGFPEKYADHQDRSWTLTAPPGYRLRLYFTHFDLELSYR<br>CEYDFVKLSSGTKVLATLCGQESTDTEQAPGNDTFYSLGPSLKVTFHSDYSNE<br>KPFTGFEEAFYAAEDVDECRVSLGDSVPCDHYCHNYLGGYYCSCRAGYVLHQ<br>NKHTCSALCSGQVFTGRSGYLSSPEYPQYPKLSSCTYSIRLEDGFSVILDFVE<br>SFDVETHPEAQCPYDSLKIQTDKGEHGPFCKTLPRIETDSHKVTITFATDES<br>GNHTGWKIHYTSTARPCPDPTAPPNGSISPVQAIYVLKDRFSVFCKTGFEELQ<br>GSVPLKSFTAVCQKDGSDWRPMPECSIIDCGPPDDLPHGHVDYITGPEVTTYK<br>AVIQYSCEETFYTMSSNGKYVCEADGFWTSSKGEKLPPVCEPVCGLSTHTIGG<br>RIVGGQPAKPGDFPWQVLLLGQTTAAAGALIHNDNWVLTAAHAVYEKRMAASS<br>LNIRMGILKRLSPHYTQAWPEEIFIHEGYTHGAGFDNDIALIKLKNKVTINGSIMP<br>VCLPRKEAASLMRTDFTGTVAGWGLTQKGLLARNLMFVDIPIADHQKCTAVYE<br>KLYPGVRVSANMLCAGLETGGKDSCRGDSSGALVFLDNETQRWVFGGIVSW<br>GSINCGAADQYGVYTKVINIYIPWIENIISNF |
| <b>Research Area</b>     | Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Target Names</b>      | Masp2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Names</b>     | Recommended name: Mannan-binding lectin serine protease 2 EC= 3.4.21.104<br>Alternative name(s): MBL-associated serine protease 2 Mannose-binding protein-associated serine protease 2 Short name= MASP-2 Cleaved into the following 2 c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Expression Region</b> | 20-685aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



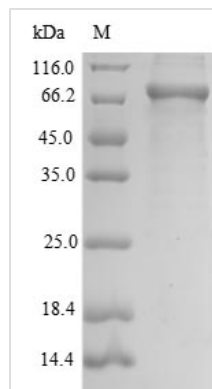
**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

**Tag Info** N-terminal 6xHis-tagged

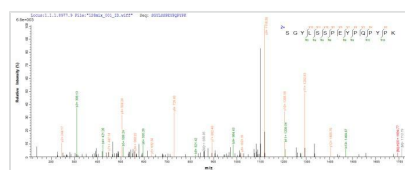
**Mol. Weight** 77.4kDa

**Protein Length** Full Length of Mature Protein

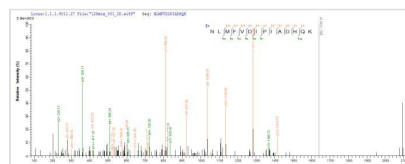
### Image



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP856307MO could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) Masp2.



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**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.