

Product datasheet for **TP319651M**

MASP1 (NM_001879) Human Recombinant Protein

Product data:

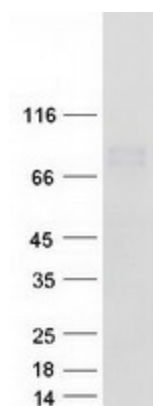
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) (MASP1), transcript variant 1, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC219651 representing NM_001879 Red =Cloning site Green =Tags(s) MRWLLLYALCFSLSKASAHTVELNNMFGQIQSPGYDPSYPSDSEVTWNITVPDGFRIKLYFMHFNLESS YLCEYDYVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGSFMSITFRSDFSNEERFTGFDHYMAVDV DECKEREDEELSCDHYCHNYIGGGYCSFRGYLHTDNRTCRVECSNLTQRTGVTSPDFPNPYPKSS ECLYTIELEEGFMVNLQFEDIFDIEDHPEVPCPYDIKIKVGPVKVLPFCGEKAPEISTQSHSVLILFH SDNSGENRGWRLSYRAAGNECPELQPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECL KDGTSWNKIPTCKIVDCRAPGELEHGLITFSTRNLTYYKSEIKYSCQEPYKMLNNTGIYTCSAQGVW MNKVLGRSLPTCLPVCGLPKFSRKL MARIFNGRPAQKGTTPWIAMLSHLNGQPFCGGSLGSSWIVTAAH CLHQSLDPEDPTLRDSDLLSPDFKILGKHWRLRSDENEQHLGVKHTLLHPQYDPNTFENDVALVELLE SPVLNAFVMPICLPEGPQQEGAMVIVSGWGKQFLQRFPELMEIEIPIVDHSTCQKAYAPLKKKVTDRMI CAGEKEGGKDACAGDSGGPMVTLNRERQWYLVGTVSWGDCCGKKDTRYGVYSYIHHNKDWIQRVTGVRN TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 49 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_001870 |
| Locus ID: | 5648 |
| UniProt ID: | P48740 |
| RefSeq Size: | 4353 |
| Cytogenetics: | 3q27.3 |
| RefSeq ORF: | 2097 |
| Synonyms: | 3MC1; CRARF; CRARF1; MAP-1; MAP1; MAp44; MASP; MASP-3; MASP3; PRSS5; RaRF |
| Summary: | This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010] |
| Protein Families: | Druggable Genome, Protease |
| Protein Pathways: | Complement and coagulation cascades |

Product images:



Coomassie blue staining of purified MASP1 protein (Cat# [TP319651]). The protein was produced from HEK293T cells transfected with MASP1 cDNA clone (Cat# [RC219651]) using MegaTran 2.0 (Cat# [TT210002]).