

## Product datasheet for TP321839

### MASP1 (NM\_139125) Human Recombinant Protein

#### Product data:

**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 2, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC221839 protein sequence  
Red=Cloning site Green=Tags(s)

MRWLLLYALCFSLKASAHTVELNNMFGQIQSPGYDPSYPSDSEVTWNITVPDGFRIKLYFMHFNLESS  
YLCEYDYVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGSFMSTFRSDFSNEERFTGFDAHYMAVDV  
DECKEREDEELSCDHYCHNYIGGYCSCRFYILHTDNRTCRCVCSNLFQRTGVITSPDFPNYPKSS  
ECLYTIELEEGFMVNLQFEDIFDIEDHPEVPCPYDIKIKVGPVKVLPFCGEKAPEISTQSHSVLILFH  
SDNSGENRGWRLSYRAAGNECPQLPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECL  
KDGTSWNKIPTCKIVDCRAPGELEHGLITFSTRNNLTTYKSEIKYSCQEPYKMLNNTGIYTCSAQGVW  
MNKVLGRSLPTCLPECGQPSRSLPSLVKRIIGGRNAEPLFPWQALIVVEDTSRVPNDKWFSGGALLSAS  
WILTAHVLRQRDRTTIPVSKHEHTVYVYGLHLDVDRDKSGAVNSSAARVWLHPDFNIQNYNHDIALLVQLQ  
EPVPLGPHVMPVCLPRLEPEGPAPHMLGLVAGWGISNPNTVDEIISGTRTSLDVLQYVLPVWPHAEC  
KTSYESRSGNYSVTENMFCAGYYEGGKDTCLGDSGGAFVIFDDLSQRWVWQGLVSWGGPEECGSKQVYGV  
YTKVSNYVDWVWEQMGLPQSVVEPQVER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 48.6 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.

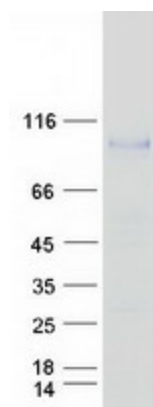
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C.
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:	<a href="#">NP_624302</a>
Locus ID:	5648
UniProt ID:	<a href="#">P48740</a>
RefSeq Size:	4184
Cytogenetics:	3q27.3
RefSeq ORF:	2184
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# TP321839). The protein was produced from HEK293T cells transfected with MASP1 cDNA clone (Cat# [RC221839]) using MegaTran 2.0 (Cat# [TT210002]).