

Recombinant Human MASP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MASP1-4869H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MASP1 MS Standard C13 and N15-labeled recombinant protein (NP_001870) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 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.
Molecular Mass	79.25 kDa
AA Sequence	MRWLLLYYALCFSLSKASAHTVELNNMFGQIQSPGYPSDSEVTWNITVPDGF RIKLYFMHFNLESSYLCEYDYVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGSF

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MSITFRSDFSNEERFTGFDAHYMAVDVDECKEREDEELSCDHYCHNYIGGGYYCSCR
FGYILHTDNRTCRVECSNLTFTQRTGVITSPDFPNYPKSSSECLYTIELEEGFMVNLQ
FEDIFDIEDHPEVPCPYDIKIKVGPKVLGPFCGEKAPEISTQSHSVLILFHSDNSGE
NRGWRLSYRAAGNECPELQPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVE
MDTFQIECLKDGTWSNKIPTCKIVDCRAPGELEHGLITFSTRNNLTTYKSEIKYSCQE
PYYKMLNNNTGIYTCSAQGVWMNKVLGRSLPTCLPVCGLPKFSRKL MARIFNGRPA
QKGTTPWIAMLSHLNGQPFCGGSLLGSSWIVTAAHCLHQSLDPEDPTLRDSDLLSP
SDFKIILGKHWRRLRSDENEQHLGVKHTTLHPQYDPNTFENDVALVELLESPVLNAFV
MPICLPEGPQQEGAMVIVSGWGKQFLQRFPETLMEIEIPIVDHSTCQKAYAPLKKKV
TRDMICAGEKEGGKDACAGDSGGPMVTLNRERGQWYLVGTVSWGDDCGKKDRY
GVYSYIHHNKDWIQRVTGVRNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MASP1 mannan binding lectin serine peptidase 1 [Homo sapiens (human)]
Official Symbol	MASP1
Synonyms	MASP1; mannan binding lectin serine peptidase 1; 3MC1; MAP1; MASP; RaRF; CRARF; MASP3; MAP44; PRSS5; CRARF1; mannan-binding lectin serine protease

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1; C4/C2 activating component of Ra-reactive factor; Ra-reactive factor serine protease p100; complement factor MASP-3; complement-activating component of Ra-reactive factor; mannose-binding lectin-associated serine protease 1; mannose-binding protein-associated serine protease; serine protease 5; EC 3.4.21.-

Gene ID 5648

mRNA Refseq NM_001879

Protein Refseq NP_001870

MIM 600521

UniProt ID P48740

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