

Recombinant Human MASP1 Protein, Myc/DDK-tagged

Cat. No. MASP1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) (MASP1), transcript variant 2 with a C-Myc/DDK tag was expressed in HEK293T.
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	48.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

> 50 µg/mL as determined by microplate BCA method

Storage Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name

[MASP1 MBL associated serine protease 1 \[Homo sapiens \(human\) \]](#)

Official Symbol

[MASP1](#)

Synonyms

MASP1; MBL associated serine protease 1; 3MC1; MAP1; MASP; RaRF; CRARF; MAP-1; MASP3; MAP44; PRSS5; CRARF1; MASP-3; mannan-binding lectin serine protease 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; mannan binding lectin serine peptidase 1; mannose-associated serine protease 1; 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_139125](#)

Protein Refseq

[NP_624302](#)

MIM

[600521](#)

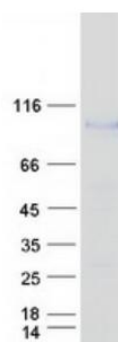
UniProt ID

[P48740](#)

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SDS-PAGE

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