

Recombinant Human MASP1 Protein (20-699 aa), His-tagged

Cat. No. MASP1-1451H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MASP1 Protein (20-699 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Immunology. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	20-699 aa
Description	Functions in the lectin pathway of complement, which performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. The lectin pathway is triggered upon binding of mannan-binding lectin (MBL) and ficolins to sugar moieties which leads to activation of the associated proteases MASP1 and MASP2. Functions as an endopeptidase and may activate MASP2 or C2 or directly activate C3 the key component of complement reaction. Isoform 2 may have an inhibitory effect on the activation of the lectin pathway of complement or may cleave IGFBP5.
Form	Tris-based buffer,50% glycerol
Molecular Mass	79.0 kDa
AA Sequence	HTVELNNMFGQIQSPGYPSDSEVTWNITVPDGFRIKLYFMHFNLESSYLCEYD YVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGSFMSITFRSDFSNEERFTGFD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AHYMAVDVDECKEREDEELSCDHYCHNYIGGGYYCSCRFGYILHTDNRTCRVECDN
 LFTQRTGVITSPDFPNYPKSSSECLYTIELEEGFMVNLQFEDIFDIEDHPEVPCPYDYI
 KIKVGPVKLGPFCGEKAPEPISTQSHSVLILFHSDNSGENRGWRLSYRAAGNECPEL
 QPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECLKDGTWSNKIPT
 CKIVDCRAPGELEHGLITFSTRNLTYYKSEIKYSCQEPYYKMLNNNTGIYTCSAQQV
 WMNKVLGRSLPTCLPVCGLPKFSRKL MARIFNGRPAQKGTTPWIAMLSHLNGQPFC
 GGSLLGSSWIVTAAHCLHQSLDPEDPTLRDSDLLSPSDFKILGKHWRLRSDENEQH
 LGVKHTTLHPQYDPNTFENDVALVELLESPVLNAFVMPICLPEGPQQEGAMVIVSGW
 GKQFLQRFPETLMEIEIPIVDHSTCQKAYAPLKKKVTTRDMICAGEKEGGKDACAGDS
 GGPMVTLNRERGGQWYLVGTVSWGDDCGKKDRYGVVSYIHHNKDWIQRVTGVRN

Purity > 90% as determined by SDS-PAGE.

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

Storage 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [MASP1 mannan binding lectin serine peptidase 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [MASP1](#)

Synonyms 3MC1; MAP1; MASP; RaRF; CRARF; MASP3; MAp44; PRSS5; CRARF1;

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Gene ID	5648
mRNA Refseq	NM_001031849
Protein Refseq	NP_001027019
UniProt ID	P48740

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