

MASP1 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	CRARF;Ra-reactive factor serine protease p100 (RaRF);Mannose-binding lectin-associated serine protease 1 (MASP-1);Mannan-binding lectin serine protease 1;Serine protease 5; Mannose-binding protein-associated serine protease;Complement-activating component of Ra-reactive factor;PRSS5;Complement factor MASP-3;MASP1;CRARF1
Protein Construction:	20-699 aa
Species:	Human
Expression Host:	E. coli
Accession:	P48740
Molecular Weight:	93.0 kDa (predicted)
AA Sequence:	HTVELNNMFGQIQSPGYPSDSEVTWNITVPDGFRIKLYFMHFNLESSYLCEYDYVKVETEDQVLATFCG RETTDTEQTPGQEVVLSPGSFMSTFRSDFSNEERFTGFDAHYMAVDVDECKEREDEELSCDHCHNYIGGGY CSCRFYILHTDNRTCVRVSDNLFTQRTGVITSPDFPNPYPKSSECLYTIEEGFMVNLQFEDIFDIEDHPEVP CPYDYIKIKVGPVKVLPFCGKAPKPEISTQSHSVLILFHSNDSNGENRGWRLSYRAAGNECPQLPPVHGKIEPS QAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECLKDGTWSNKIPTCKIVDCRAPGELEHGLITFSTRNNLTTY KSEIKYSCQEPYYKMLNNNTGIYTCSAQGVWMNKVLGRSLPTCLPVCGLPKFSRKL MARIFNGRPAQKGTTP WIAMLSHLNGQPFCGGSLLGSSWIVTAAHCLHQSLDPEDPTLRDSDLLSPSDFKILGKHWRLRSDENEQHLG VKHTTLHPQYDPNTFENDVALVELLESPVLNAFVMPICLPEGPQQEGAMVIVSGWGKQFLQRFPETLMEIEIPI VDHSTCQKAYAPLKKKVTDMICAGEKEGGKDACAGDSGGPMVTLNRERGGQWYLVGTVSWGDDCGKKDR YGVVSYIHNNKDWIQRVTGVRN

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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. Also plays a role in development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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