

Recombinant Homo sapiens Mannan-binding lectin serine protease 1

Catalog No: #AP72663

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Package Size: #AP72663-1 20ug #AP72663-2 100ug #AP72663-3 1mg

Description

Product Name	Recombinant Homo sapiens Mannan-binding lectin serine protease 1
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:20-699aaSequence Info:Full Length
Other Names	<p>Complement factor MASP-3</p> <p>Complement-activating component of Ra-reactive factor</p> <p>Mannose-binding lectin-associated serine protease 1</p> <p>Short name:</p> <p>MASP-1</p> <p>Mannose-binding protein-associated serine protease</p> <p>Ra-reactive factor serine protease p100</p> <p>Short name:</p> <p>RaRF</p> <p>Serine protease 5</p> <p>Cleaved into the following 2 chains:</p> <p>Mannan-binding lectin serine protease 1 heavy chain</p> <p>Mannan-binding lectin serine protease 1 light chain</p>
Accession No.	P48740
Uniprot	P48740
GeneID	5648;
Calculated MW	79 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	<p>HTVELNNMFGQIQSPGYPDSYPSDSEVTWNITVPDGFRIKLYFMHFNLESSYLCEYDYVKVETEDQVLATFCG</p> <p>RETTDTEQTPGQEVVLSPGSFMSITFRSDFSNEERFTGFDAHYMAVDVDECKEREDEELSCDHYCHNYIGGY</p> <p>YCSCRFGYILHTDNRTCRCVSDNLFTQRTGVITSPDFPNPYPKSSECLYTIELEEGFMVNLQFEDIFDIEDHPE</p> <p>VPCPYDYIKIKVGPVKLGPFCGEKAPEPISTQSHSVLILFHSDNSGENRGWRLSYRAAGNECPQLPPVHGKIE</p> <p>PSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECLKDGTWSNKIPTCKIVDCRAPGELEHGLITFSTRNNLT</p> <p>TYKSEIKYSCQEPYYKMLNNTGIYTCSAQGVWMNKVLRSLPTCLPVCGLPKFSRKL MARIFNGRPAQKGT</p> <p>TPWIAMLSHLNGQPFCCGSGLLGSSWIVTAAHCLHQSLDPEDPTLRDSDLLSPSDFKILGKHWRLRSDENEQH</p> <p>LGVKHTTLHPQYDPNPFENDVALVELLESPVNAFVMPICLPEGPQQEGAMVIVSGWGKQLQRFPETLMEIEI</p> <p>PIVDHSTCQKAYAPLKKKVTDRMICAGEKEGGKDACAGDSSGPMVTLNRERGRQWYLVGTVSWGDDCGKKD</p> <p>RYGVYSYIHHNKDWIQRVTGVRN</p>
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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.

References

"MASP-3 and its association with distinct complexes of the mannan-binding lectin complement activation pathway."Dahl M.R., Thiel S., Matsushita M., Fujita T., Willis A.C., Christensen T., Vorup-Jensen T., Jensenius J.C.Immunity 15:127-135(2001)Research Topic:Immunology

Note: This product is for in vitro research use only