Product Name: Recombinant Human Complement Factor MASP3 (C-6His)
Catalog #: PHH1130

Summary

Name	Complement MASP3/Mannan-binding lectin serine protease 1/MASP1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Complement Factor MASP3 is produced by our Mammalian expression system and the target gene encoding His20-Arg728 is expressed with a 6His tag at the C-terminus.
Accession #	P48740-2
Host	Human Cells
Species	Human
Predicted Molecular Mass	80.68 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 200mM NaCl, 10% Glycerol, pH 8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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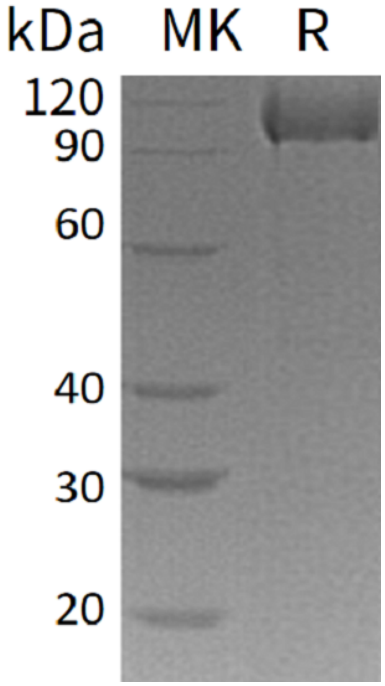

Alternative Names

Complement Factor MASP3; Complement Factor MASP-3; Mannose-Binding Lectin-Associated Serine Protease 1; MASP-1; RaRF; Serine Protease 5; MASP1; CRARF; CRARF1; PRSS5

Background

MASP3 is a member of the MASPs involved in mannan-binding lectin (MBL) complement pathway. The MBL pathway is initiated by the binding of MBL to specific carbohydrate structures found on the surface of a variety of microorganisms. Activation of the complement pathway via MBL is initiated by specific MASPs. Three MASPs have been identified and all have domain structures similar to those of C1r and C1s with a heavy chain (chain A) and a light chain (chain B). Chain A is composed of CUB1, EGF, CUB2, CCP1 and CCP2 while chain B corresponds to the catalytic domain found in many serine proteases. MASP1 and MASP3 are two alternatively spliced products of a single gene, which contain the same A chains but entirely different B chains. Distinct MASPs found in different MBL oligomers may have different biological activities. For example, MASP3, found together with MASP2, downregulates the C4 and C2 cleaving activity of MASP2. The protease activity of MASP3 is first revealed here using rhMASP3CD, which is inhibited by serine protease inhibitors such as Ecotin and AEBSF.

Note

For Research Use Only , Not for Diagnostic Use.