

## Complement Factor MASP3 Protein, Human, Recombinant (His)

## General Information

Synonyms:	PRSS5;CRARF;Serine Protease 5;MASP1;MASP-1;Mannose-Binding Lectin-Associated Serine Protease 1;Complement Factor MASP-3;RaRF;CRARF1;Complement Factor MASP3
Protein Construction:	His20-Arg728
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P48740-2
Molecular Weight:	95-120 KDa (reducing condition)
AA Sequence:	His20-Arg728

## 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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 200 mM NaCl, 10% Glycerol, pH 8.0.

## Preparation and Storage

## Stability &amp; 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:

Proteins are shipped with blue ice.

## Protein 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481