

# Mouse MASP3 Protein, His Tag (active enzyme, MALS verified)

Catalog # MA3-M52H3



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Surprise Inside!

## Synonym

MASP3, MASP1, CRARF1, RaRF

## Source

Mouse MASP3 Protein, His Tag(MA3-M52H3) is expressed from human 293 cells (HEK293). It contains AA Ile 455 - Arg 733 (Accession # [BAB69688.1](#)).

Predicted N-terminus: Ile 455

## Molecular Characterization

MASP3(Ile 455 - Arg 733)  
BAB69688.1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 32.6 kDa. The protein migrates as 40-45 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

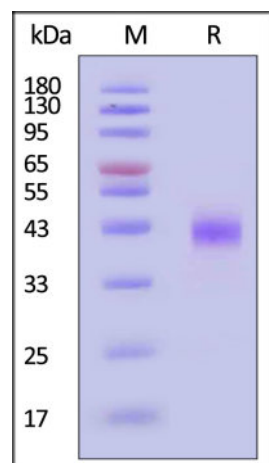
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

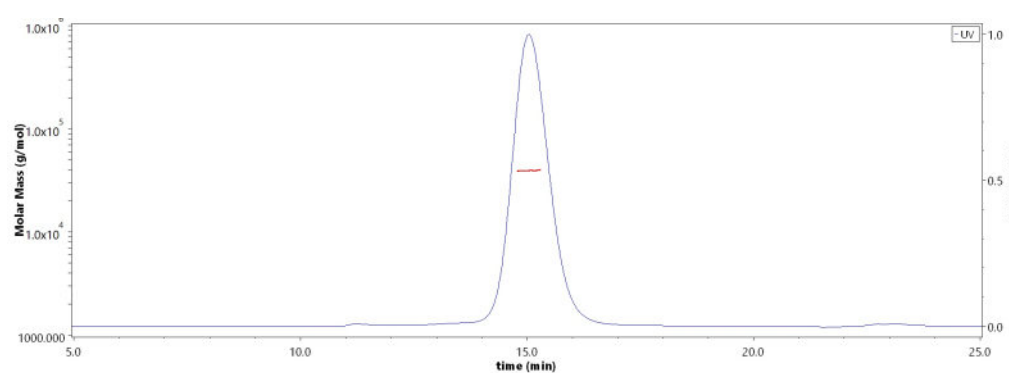


Mouse MASP3 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity

Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of

## SEC-MALS



The purity of Mouse MASP3 Protein, His Tag (Cat. No. MA3-M52H3) is more than 90% and the molecular weight of this protein is around 30-45 kDa verified by SEC-MALS.

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5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB).The specific activity is >7500 pmol/min/μg,as measured under the described conditions (QC tested).

### Background

MASP3 is a member of the MASP family. The MASP family proteins were first discovered as complexes with mannose-binding lectin (MBL) and therefore named MBL-associated serine proteases, but later, they were found to interact with ficolins, and later still, collectin-10 and collectin-11. As well as proteolytic enzymes (MASP-1, MASP-2, MASP-3), the group includes non-enzymatic factors (MAp19, MAp44). In this review, the association-specific factors of the lectin pathway with haematologic malignancies and related infections are discussed.

### Clinical and Translational Updates

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