

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

Catalog # MA3-M52H3



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 / rFC 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

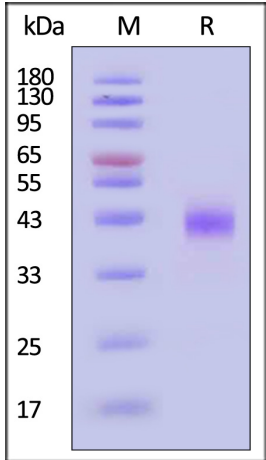
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

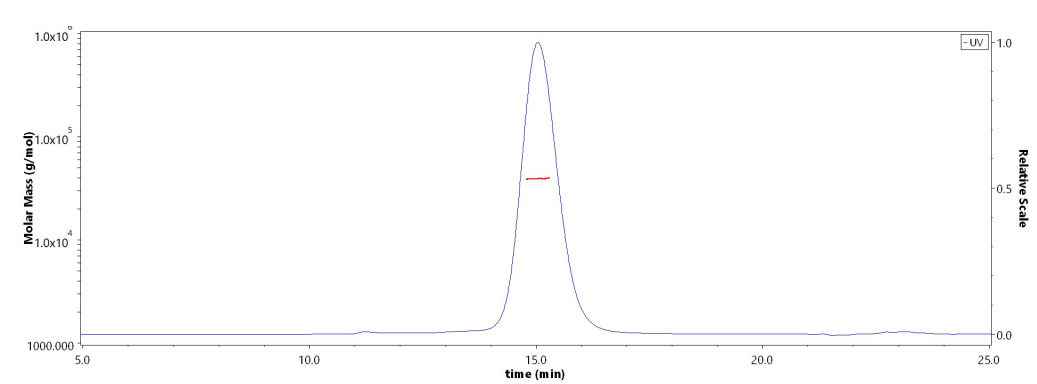


Mouse MASP3 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

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.

[Report](#)

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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.

