

Cynomolgus MASP2 Protein, His Tag

Catalog # MA2-C51H3



BIOSYSTEMS
Acro

Synonym

MASP2, MASP-2, Mannan-binding lectin serine protease 2, MASP1P1, sMAP

Source

Cynomolgus MASP2 Protein, His Tag (MA2-C51H3) is expressed from *E. coli* cells. It contains AA Thr 287 - Phe 686 (Accession # [A0A2K5UJY0](#)).

Predicted N-terminus: Met

Molecular Characterization

MASP2(Thr 287 - Phe 686) A0A2K5UJY0	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 45.6 kDa. The protein migrates as 42-45 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 200 mM NaCl, 0.2 M Arginine, pH8.0 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.

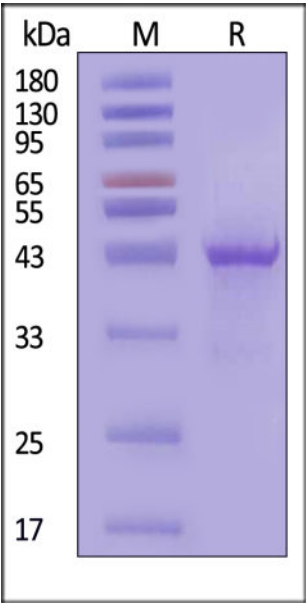
This product is stable after storage at:

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

ACRO Quality Management System

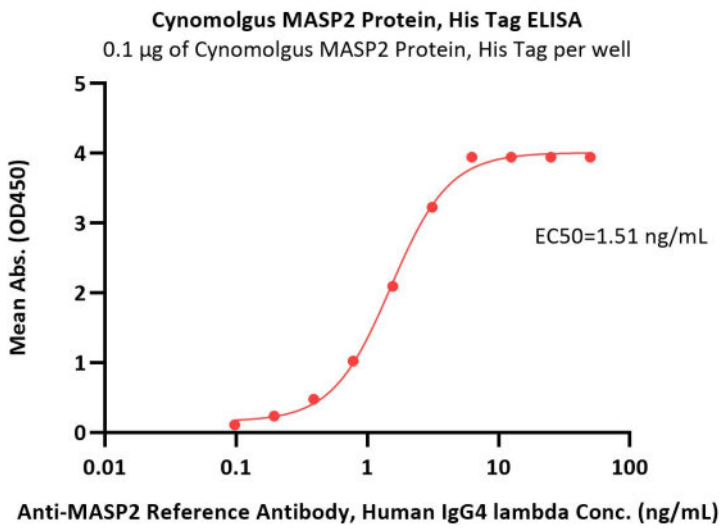
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



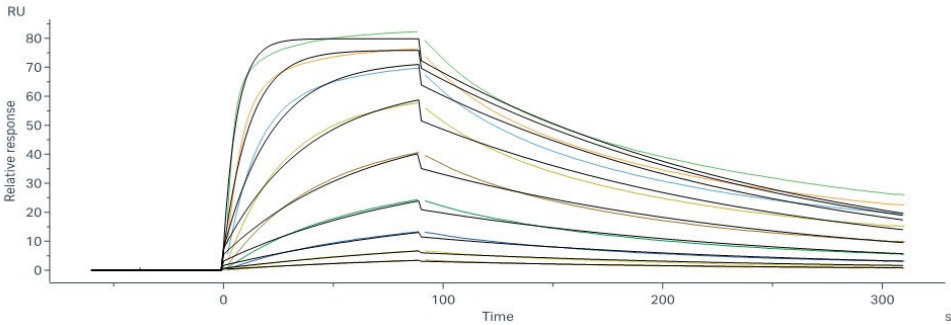
Cynomolgus MASP2 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized Cynomolgus MASP2 Protein, His Tag (Cat. No. MA2-C51H3) at 1 µg/mL (100 µL/well) can bind Anti-MASP2 Reference Antibody, Human IgG4 lambda with a linear range of 0.1-3 ng/mL (QC tested).

Bioactivity-SPR



Narsoplimab captured on Protein A Chip can bind Cynomolgus MASP2 Protein, His Tag (Cat. No. MA2-C51H3) with an affinity constant of 38.4 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Mannan-binding lectin-associated serine protease 2 (MASP-2) is a member of the lectin pathway of complement and is one of two splice products from the MASP2 gene. The protein is secreted from the liver as a zymogenic protein consisting of 671 residues and circulates at a concentration of approximately 0.41 µg/mL in the serum. MASP-2 is associated with pattern-recognition molecules as a homodimer that is activated by MASP-1 when bound to an activating surface resulting in an A-

chain and a B-chain linked by a disulphide bond. MASP-2 is also capable of autoactivating. Activated MASP-2 cleaves C2 and C4, which leads to formation of the C3 convertase, C4b2a, and activation of complement.



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