

# Human MASP2 Protein

Cat. No. MSP-HE102

## Description

<b>Source</b>	Recombinant Human MASP2 Protein is expressed from E.coli with His tag at the C-Terminus. It contains Gly288-Phe686.
<b>Accession</b>	O00187-1
<b>Molecular Weight</b>	The protein has a predicted MW of 46.9 kDa. Due to autocatalytic cleavage, the protein migrates to 18 kDa&25-30 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

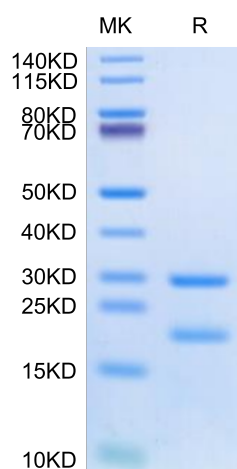
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 20mM Tris, 200mM NaCl (pH 9.0). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The pathogenesis of severe acute respiratory disease syndrome (SARS) is not fully understood. One case-control study has reported an association between susceptibility to SARS and mannan-binding lectin (MBL) in China. As the downstream protein of MBL, variants of the MBL-associated serine protease-2 (MASP2) gene may be associated with SARS coronavirus (SARS-CoV) infection in the same population.

## Assay Data

### Tris-Bis PAGE

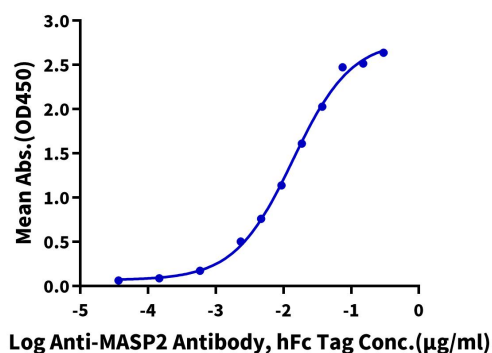


Human MASP2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Human MASP2, His Tag ELISA

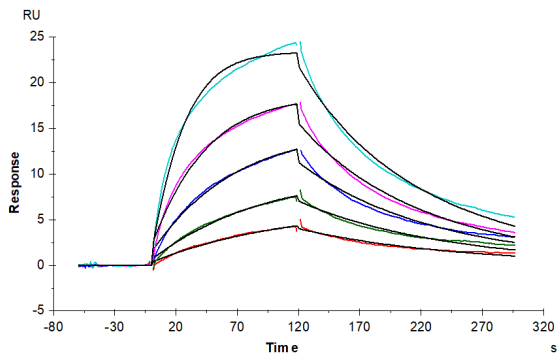
0.02µg Human MASP2, His Tag Per Well



Immobilized Human MASP2, His Tag at 0.2µg/ml (100µl/Well). Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 13.8ng/ml determined by ELISA (QC Test).

Assay Data

SPR Data



Anti-MASP2 Antibody captured on CM5 Chip via Protein A can bind Human MASP2, His Tag with an affinity constant of 3.08 nM as determined in SPR assay (Biacore T200).