

# Biotinylated Rat MASP2 Protein (Primary Amine Labeling)

Cat. No. MSP-RE102B

## Description

<b>Source</b>	Recombinant Biotinylated Rat MASP2 Protein (Primary Amine Labeling) is expressed from E.coli with His tag at the C-Terminus. It contains Thr287-Phe685.
<b>Accession</b>	A2VCV7
<b>Molecular Weight</b>	The protein has a predicted MW of 46.7 kDa. Due to autocatalytic cleavage, the protein migrates to 15-20 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

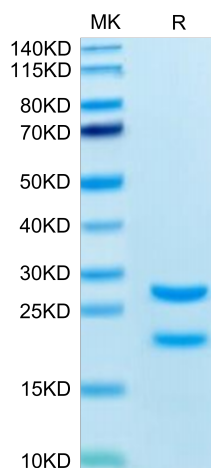
<b>Formulation</b>	Supplied as 0.22µm filtered solution in 50mM Tris, 200mM NaCl (pH 9.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The dysregulation of complement cascade leads to unsolicited cytokine storm, inflammation, deterioration of alveolar lining cells, culminating in acquired respiratory destructive syndrome (ARDS). Similar pathogenesis is observed with the middle east respiratory syndrome (MERS), severe acquired respiratory syndrome (SARS), and SARS-CoV-2. Activation of the lectin pathway via mannose-binding lectin associated serine protease 2 (MASP2) is witnessed under discrete viral infections including COVID-19.

## Assay Data

### Tris-Bis PAGE



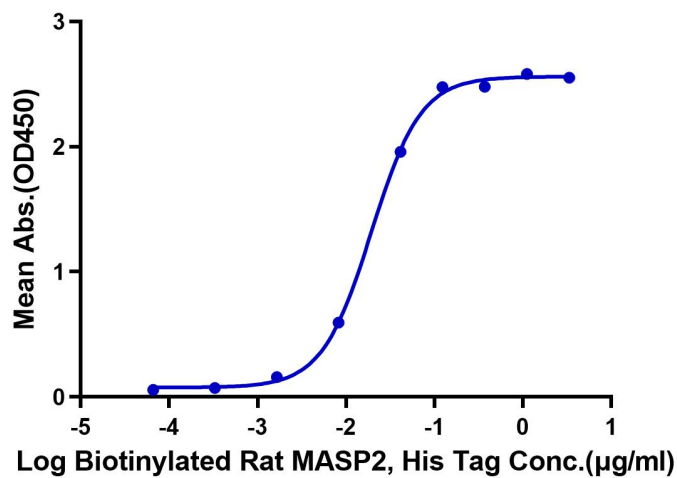
Biotinylated Rat MASP2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Biotinylated Rat MASP2, His Tag ELISA**

0.05µg Anti-MASP2 Antibody, hFc Tag Per Well



Immobilized Anti-MASP2 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Rat MASP2, His Tag with the EC50 of 19.3ng/ml determined by ELISA.