

Cynomolgus MASP2 Protein

Cat. No. MSP-CE102

Description	
Source	Recombinant Cynomolgus MASP2 Protein is expressed from E.coli with His tag at the C-Terminus. It contains Thr287-Phe686.
Accession	A0A2K5UJY0
Molecular Weight	The protein has a predicted MW of 46.8 kDa. Due to autocatalytic cleavage, the protein migrates to 21-24 kDa&28-30 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

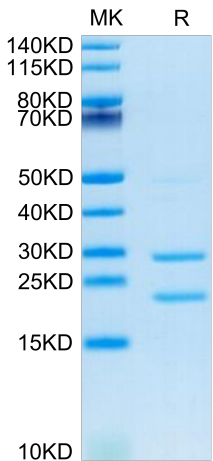
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in 20mM Tris, 200mM NaCl (pH 9.0). Normally 8% trehalose / 8% mannitol is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 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 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

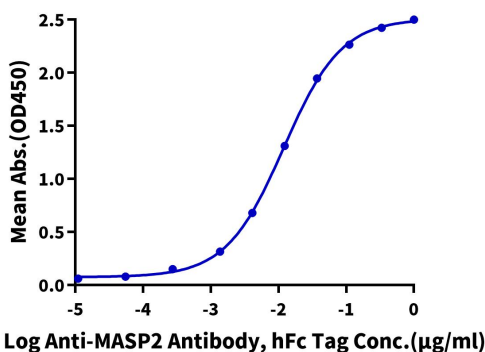
Tris-Bis PAGE



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

ELISA Data

Cynomolgus MASP2, His Tag ELISA
0.1µg Cynomolgus MASP2, His Tag Per Well



Immobilized Cynomolgus MASP2, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 11.9ng/ml determined by ELISA.