Mouse MASP2 Protein

Cat. No. MSP-ME102

Description

Source	Recombinant Mouse MASP2 Protein is expressed from E.coli with His tag at the C-Terminus.
	It contains Thr287-Phe685.
Accession	Q91WP0
Molecular Weight	The protein has a predicted MW of 46.6 kDa. Due to autocatalytic cleavage, the protein migrates to 18-20 kDa&27-30 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

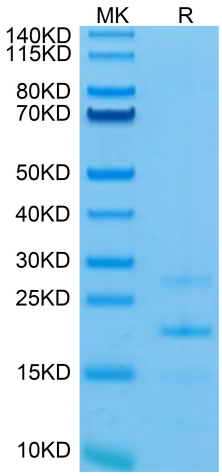
Formulation	Lyophilized from 0.22 μm filtered solution in 50mM Tris, 200mM NaCl (pH 9.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 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 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.

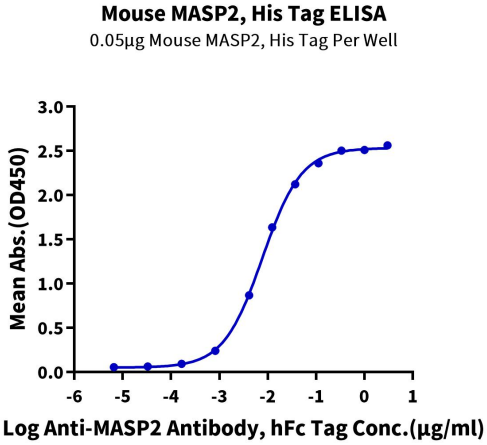
Assay Data

Tris-Bis PAGE



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

ELISA Data



Immobilized Mouse MASP2, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 7.8ng/ml determined by ELISA.

For Research Use Only