Rat MASP2 Protein

Cat. No. MSP-RE102

Description

Source	Recombinant Rat MASP2 Protein is expressed from E.coli with His tag at the C-Terminus.
	It contains Thr287-Phe685.
Accession	A2VCV7
Molecular Weight	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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

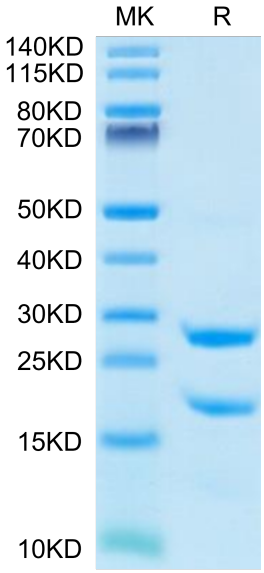
Formulation	Lyophilized from 0.22 μm filtered solution in 50mM Tris, 200mM NaCl (pH 9.0). Normally 8% trehalose / 8% mannitol is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

Bis-Tris PAGE



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

ELISA Data

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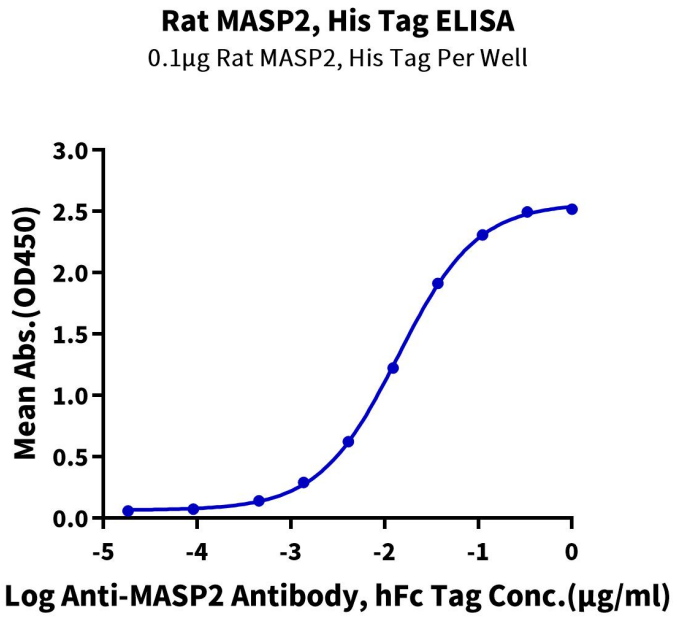
Assay Data



Immobilized Rat MASP2, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 13.9ng/ml determined by ELISA.