

MASP2 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	MASP-2;MAP19;MASP1P1;sMap
Protein Construction:	Thr287-Phe685
Species:	Mouse
Expression Host:	E. coli
Accession:	Q91WP0
Molecular Weight:	46.6 kDa (predicted). Due to autocatalytic cleavage, the protein migrates to 18-20 kDa&27-30 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	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 5.1ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in 50 mM Tris, 200 mM NaCl (pH 9.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

Reference

Ram Kumar Pandian S, et al. Targeting complement cascade: an alternative strategy for COVID-19. 3 Biotech. 2020 Nov;10(11):479. doi: 10.1007/s13205-020-02464-2. Epub 2020 Oct 19. PMID: 33088671; PMCID: PMC7571295.

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