Human MASP2 Protein

Cat. No. MSP-HE102

Description

Source	Recombinant Human MASP2 Protein is expressed from E.coli with His tag at the C-Terminus.
	It contains Gly288-Phe686.
Accession	O00187-1
Molecular Weight	The protein has a predicted MW of 46.9 kDa. Due to autocatalytic cleavage, the protein migrates to 18 kDa&25-30 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>95% as determined by HPLC

Formulation and Storage

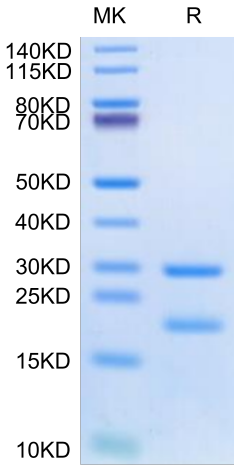
Formulation	Supplied as 0.22 μm filtered solution in 20 mM Tris, 200 mM NaCl (pH 9.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The pathogenesis of severe acute respiratory disease syndrome (SARS) is not fully understood. One case-control study has reported an association between susceptibility to SARS and mannan-binding lectin (MBL) in China. As the downstream protein of MBL, variants of the MBL-associated serine protease-2 (MASP2) gene may be associated with SARS coronavirus (SARS-CoV) infection in the same population.

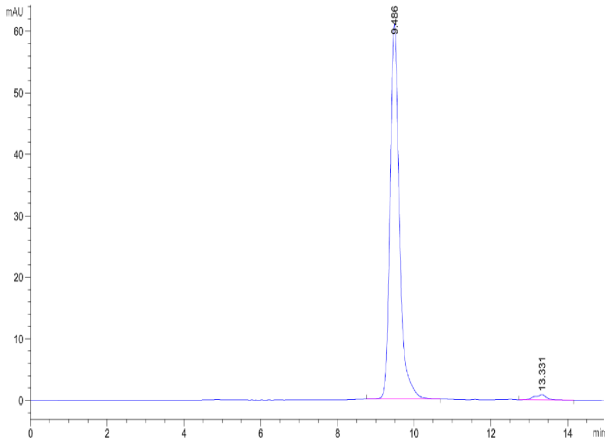
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human MASP2 is greater than 95% as determined by SEC-HPLC.

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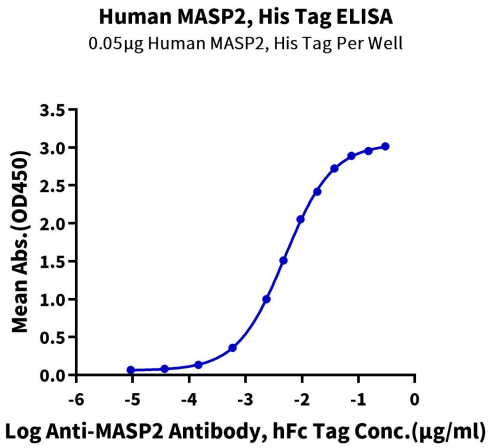
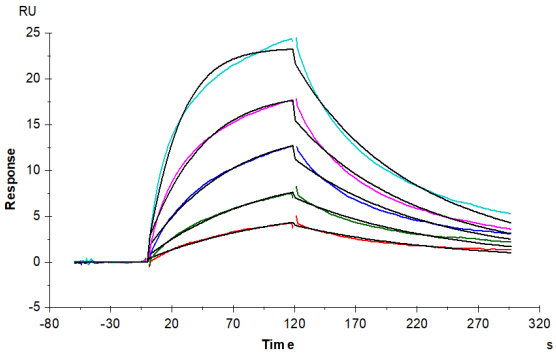
Assay Data

ELISA Data



Immobilized Human MASP2, His Tag at 0.5 μg/ml (100 μl/Well). Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 5.0 ng/ml determined by ELISA (QC Test).

SPR Data



Anti-MASP2 Antibody captured on CM5 Chip via Protein A can bind Human MASP2, His Tag with an affinity constant of 3.08 nM as determined in SPR assay (Biacore T200).