

Biotinylated Human MASP3 Protein

Cat. No. MSP-HM413B

Description

Source	Recombinant Biotinylated Human MASP3 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ile450-Arg728.
Accession	P48740-2
Molecular Weight	The protein has a predicted MW of 33.46 kDa. Due to glycosylation, the protein migrates to 42-55 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

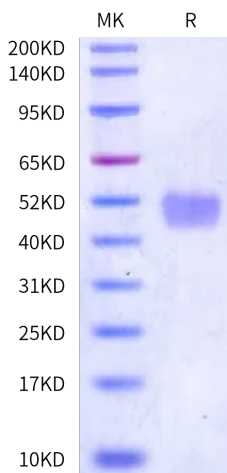
Formulation	Lyophilized from 0.22 µm filtered solution in 50mM Tris, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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

Mannose-binding lectin-associated serine protease-1 (also named MASP3), a multifunctional serine protease, plays an important role in innate immunity which is capable of activating the lectin pathway of the complement system and also triggering coagulation cascade system.

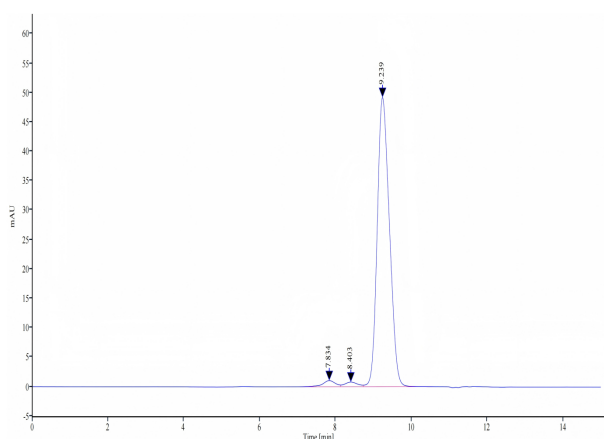
Assay Data

Bis-Tris PAGE



Biotinylated Human MASP3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human MASP3 is greater than 95% as determined by SEC-HPLC.

Biotinylated Human MASP3 Protein

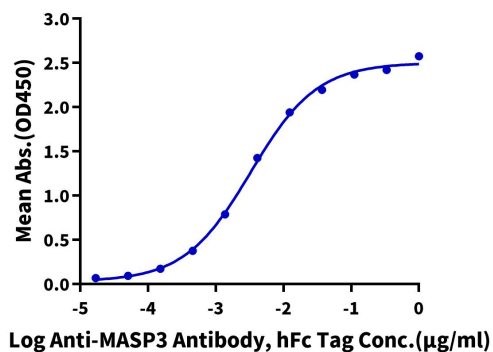
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Assay Data

ELISA Data

Biotinylated Human MASP3, His Avi Tag ELISA

0.1µg Biotinylated Human MASP3, His Avi Tag Per Well



Immobilized Biotinylated Human MASP3, His Avi Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-MASP3 Antibody, hFc Tag with the EC50 of 3.3ng/ml determined by ELISA.

Bioactivity Data

Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is > 15000 pmol/min/µg.