Cynomolgus MASP3 Protein

Cat. No. MSP-CM113

Description

Source	Recombinant Cynomolgus MASP3 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Ile450-Ser728.
Accession	A0A7N9I9H1
Molecular Weight	The protein has a predicted MW of 31.94 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

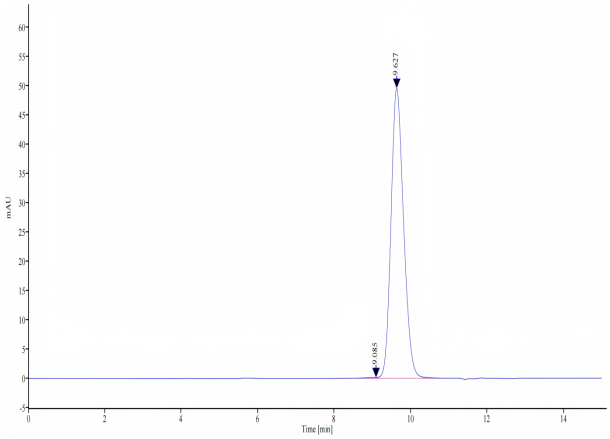
Mannose-binding lectin-associated serine protease-1 (also named MASP3), a multifunctional serine protease, plays an important role in innate immunity which is capable of activating the lectin pathway of the complement system and also triggering coagulation cascade system.

Assay Data

Bis-Tris PAGE

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

SEC-HPLC



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

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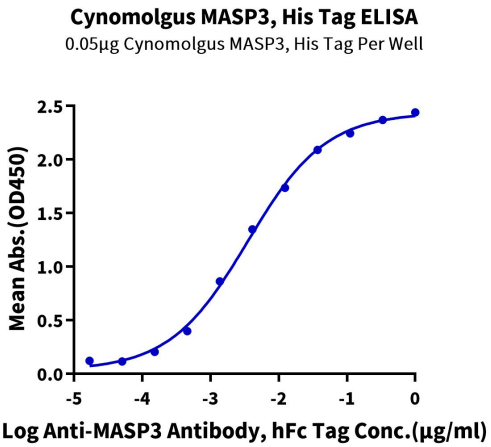
Assay Data

ELISA Data



Immobilized Cynomolgus MASP3, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-MASP3 Antibody, hFc Tag with the EC50 of 3.5ng/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.