Human MASP3 Protein

Cat. No. MSP-HM113

Description

Source	Recombinant Human MASP3 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Ile450-Val721.
Accession	P48740-2
Molecular Weight	The protein has a predicted MW of 31.10 kDa. Due to glycosylation, the protein migrates to 43-53 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
	> 95% as determined by HPLC

Formulation and Storage

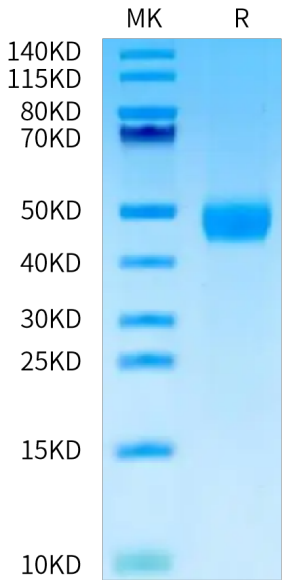
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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

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



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

SEC-HPLC

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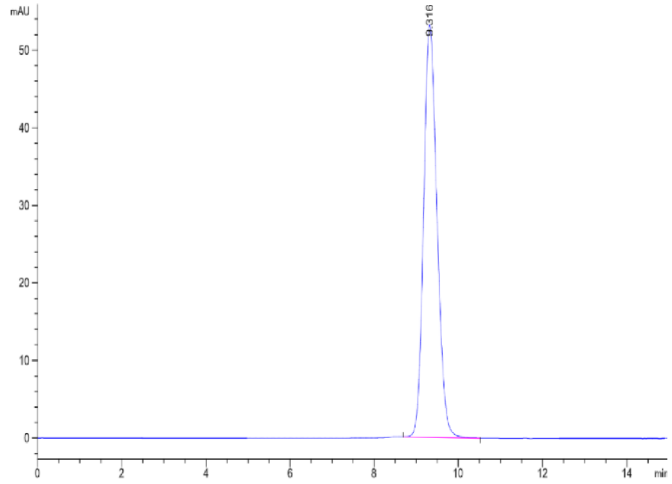
Assay Data



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

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 > 10000 pmol/min/μg.