Human MOG/Myelin Oligodendrocyte Glycoprotein Protein

Cat. No. MOG-HM101

Description

Source	Recombinant Human MOG/Myelin Oligodendrocyte Glycoprotein Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gly30-Gly154.
Accession	Q16653
Molecular Weight	The protein has a predicted MW of 15.4 kDa. Due to glycosylation, the protein migrates to 20-23 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

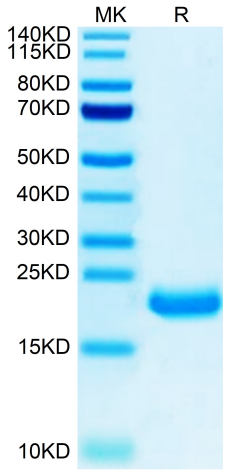
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Myelin oligodendrocyte glycoprotein (MOG) antibody disease is a rare autoimmune disorder with antibodies against the MOG predominantly involving the optic nerve and spinal cord leading to vision loss and paralysis. When MOG antibody disease involves the brain, the phenotype is similar to acute disseminated encephalomyelitis (ADEM).

Assay Data

Tris-Bis PAGE



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

SEC-HPLC

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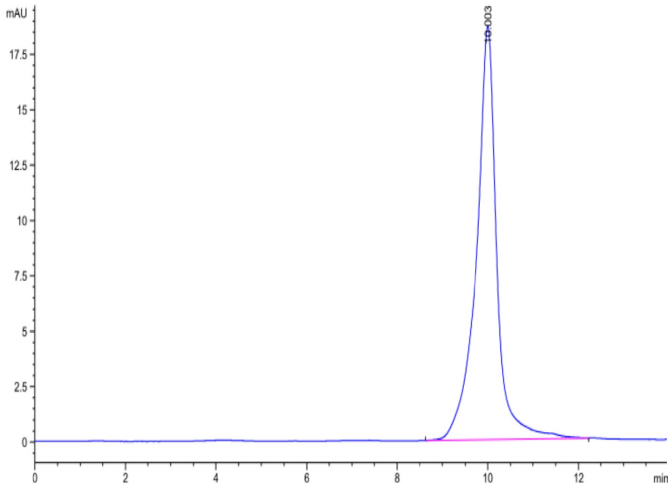

The purity of Human MOG is greater than 95% as determined by SEC-HPLC.