

Myelin Oligodendrocyte Glycoprotein Recombinant Protein | MOG recombinant protein

Recombinant Human Myelin Oligodendrocyte Glycoprotein

CATALOG # AAA38579	HOST E Coli
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PRODUCT SYNONYMS

Myelin Oligodendrocyte Glycoprotein; Recombinant Human Myelin Oligodendrocyte Glycoprotein; MOG Human; Myelin Oligodendrocyte Glycoprotein Human Recombinant; MOG; MOGIG-2; MGC26137; MOG recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The Myelin Oligodendrocyte Glycoprotein 0.5mg/ml solution was lyophilized from 20mM sodium acetate buffer pH-4 and 0.3M sodium chloride. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MGQFRVIGPR HPIRALVGDE VELPCRISPG KNATGMEVGW YRPPFSRVVH LYRNGKDQDG DQAPEYRGRT ELLKDAIGEG KVTLRIRNVR FSDEGGFTCF FRDHSYQEEA AMELKVEDPF YWVSPGHHHH HH
Sequence Length	224
Solubility	It is recommended to reconstitute the lyophilized MOG in sterile 10mM Acetic acid not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized MOG although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution MOG should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MOG recombinant protein	Description: Myelin Oligodendrocyte Glycoprotein produced in E Coli is a single, non-glycosylated polypeptide chain containing a total of 132 amino acids (Met + 30-154 a.a. + 6x His tag at C-terminus) and having a total molecular mass of 15.2 kDa. Introduction: Myelin Oligodendrocyte Glycoprotein is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Due to this localization, it is a prime target antigen that plays a role in immune-mediated demyelination. Myelin Oligodendrocyte Glycoprotein is involved in completion and maintenance of the myelin sheath and in cell-cell communication. MOG protein was found to differentially expressed in the dorsolateral prefrontal cortex and in the temporal lobe from patients with schizophrenia. MOG-specific antibody is crucial to the initiation of MOG-induced murine experimental autoimmune encephalomyelitis.
Product Categories/Family for MOG recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; Myelin Oligodendrocyte Glycoprotein

NCBI AND UNIPROT INFORMATION

NCBI GI #	56788389
NCBI GeneID	4340
NCBI Accession #	NP_001008229.1

NCBI GenBank Nucleotide #	NM_001008228.2
UniProt Accession #	Q16653 ; O00713 ; O00714 ; O00715 ; Q13054 ; Q13055 ; A6NDR4 ; A6NNJ9 ; A8MY31 ; B0UZR9 ; E9PGF0 ; F8W9D5
Molecular Weight	33,528 Da
NCBI Official Full Name	myelin-oligodendrocyte glycoprotein isoform alpha3
NCBI Official Synonym Full Names	myelin oligodendrocyte glycoprotein
NCBI Official Symbol	MOG
NCBI Official Synonym Symbols	BTN6; BTNL11; MOGIG2; NRCLP7
NCBI Protein Information	myelin-oligodendrocyte glycoprotein; MOG Ig-AluB; MOG alpha-5
UniProt Protein Name	Myelin-oligodendrocyte glycoprotein
UniProt Gene Name	MOG
UniProt Entry Name	MOG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mog-recombinant-protein-e-coli/38579>