9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MOG Human

Myelin Oligodendrocyte Glycoprotein Human Recombinant
RCP1384

Product Overview

Name	MOG Human
Description	
Myelin Oligodendrocyte Glycoprotein Human Recombinant	
Accession (Primary)	Q16653
Synonyms	
Myelin Oligodendrocyte Glycoprotein, MOG, MOGIG-2, MGC26137.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The Myelin Oligodendrocyte Glycoprotein was lyophilized from a 0.2 μm filtered solution in 20mM HAc-NaAc and 150mM NaCl pH-4.5	
Stability	
Lyophilized MOG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MOG should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGQFRVIGPRHPIRALVGDEVELPCRISPGKNATGMEVGWYRPPFSRVVHLYRN	

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GKDQDGDQAPEYRGRTELLKDAIGEGKVTLRIRNVRFSDEGGFTCFFRDHSYQE

EAAMELKVEDPFYWVSPGHHHHHH.

Solubility

It is recommended to reconstitute the lyophilized MOG in sterile 50mM Acetic acid not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

MOG Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q16653)