

32-4226: Recombinant Human Myelin Oligodendrocyte Glycoprotein

Alternative Name : Myelin Oligodendrocyte Glycoprotein,MOG,MOGIG-2,MGC26137.

Description

Source : Escherichia Coli. 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. 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 Info

Amount :	50 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The Myelin Oligodendrocyte Glycoprotein 0.5mg/ml solution was lyophilized from 20mM sodium acetate buffer pH-4 and 0.3M sodium chloride.
Storage condition :	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.
Amino Acid :	MGQFRVIGPRHPICALVGVDELPCRIISPGKNATGMEVGVWYRPPFSRVVHLYRNGKDQDGDQAPEYRGRTELLKDAIGEGKVTLRIRNVRFSDGEGFTCFRRDHSYQEEAAMELKVDPFYWVSPGHHHHHHH.

Application Note

It is recommended to reconstitute the lyophilized MOG in sterile 10mM Acetic acid not less than 100µg/ml, which can then be further diluted to other aqueous solutions.