

MOG Human

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.

Catalog #: PRPS-473

For research use only.

Synonyms: Myelin Oligodendrocyte Glycoprotein, MOG, MOGIG-2, MGC26137.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:

MGQFRVIGPRHPRALVGVDELPCRISPGKNATGMEVGVYRPPFSRVVHLYRNGKDQDGDQA
PEYRGRTELLKDAIGEGKVTLRIRNVRFSDGEGFTCFRDHSYQEEAAMELKVEDPFYWVSPGH
HHHHH.

Purity: Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The Myelin Oligodendrocyte Glycoprotein 0.5mg/ml solution was lyophilized from 20mM sodium acetate buffer pH-4 and 0.3M sodium chloride.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

5-20

Solubility:

It is recommended to reconstitute the lyophilized MOG in sterile 10mM Acetic acid not less than 100

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.

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