

Cat # RP-906

Recombinant Human CD14

**Size:** 2 ug

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:**

Myelin Oligodendrocyte Glycoprotein produced in E.Coli is a single, non-glycosylated polypeptide chain containing 132 amino acids and having a molecular mass of 15.2 kDa. The Myelin Oligodendrocyte Glycoprotein is fused with 6xHis tag at C-terminus. The Myelin Oligodendrocyte Glycoprotein 0.5mg/ml solution was lyophilized from 20mM sodium acetate buffer pH-4 and 0.3M sodium chloride.

**APPLICATION AND SUGGESTED DILUTIONS:**

5-20µg per ml for In-Vitro Experiments and 50-100µg per animal for In-Vivo study. The protein can be used for T-cell proliferation, cytokine induction, antigen presentation, western blotting, ELISA and EAE induction in mice.

**STORAGE & 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).

**USAGE:**

This item is for LABORATORY RESEARCH USE ONLY.

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