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- Mindermengenzuschlag
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Recombinant Human Myelin Oligodendrocyte Glycoprotein

CLPRO466
CLPRO466-2
CLPRO466-3
Lot: 410MOG01

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.

Description: 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 6x His tag at C-terminus.

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

Source: *Escherichia Coli*.

Presentation: 10 µg (CLPRO466), 50 µg (CLPRO466-2), or 1 mg (CLPRO466-3), sterile filtered white lyophilized (freeze-dried) powder. The Myelin Oligodendrocyte Glycoprotein 0.5 mg/ml solution was lyophilized from 20 mM sodium acetate buffer, pH 4, and 0.3 M sodium chloride.

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

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.

Recommended Applications: 5-20 µg per ml for *In-Vitro* Experiments and 50-100 µg 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.

Purity:

Greater than 95.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Amino Acid Composition: Was Verified by MS.

Laboratory Reagent For Research Use Only

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