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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Recombinant Human Myelin Oligodendrocyte Glycoprotein

**CLPRO466**  
**CLPRO466-2**  
**CLPRO466-3**  
**Lot:**

### **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 be 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.

*Continued Overleaf.....*

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**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**