

## Recombinant Human Myelin Oligodendrocyte Glycoprotein (MOG)

### ORDERING INFORMATION

Catalog Number	Size
24202P-10	10ug
24202P-50	50ug
24202P-1000	1000ug

**Formulation:** Solution of Myelin Oligodendrocyte Glycoprotein (0.5mg/ml) was lyophilized from 20mM sodium acetate buffer, pH 4.0, and 0.3M sodium chloride.

### BACKGROUND

Myelin Oligodendrocyte Glycoprotein (MOG) is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Given its localization, it is a prime target antigen of immune-mediated demyelination. MOG is involved in completion and maintenance of the myelin sheath and in cell-cell communication. MOG is differentially expressed in the dorsolateral prefrontal cortex and in the temporal lobe from patients with schizophrenia.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*

### DESCRIPTION

Recombinant Human MOG produced in *E. coli* is a single non-glycosylated polypeptide chain containing 132 amino acids with a molecular weight of 15.2kDa. It is fused to a 6X His-tag at the C-terminus.

### **Amino Acid Sequence:**

Met-GQFRVIGPRHPERALVGDEVE  
LPCRISPGKNATGMEVGWYR  
PPFSRVVHLYRNGKDQGDQ  
APEYRGRTELLKDAIGEGKV  
TLRIRNVRFSDEGGFTCFRR  
DHSYQEEAAM ELKVEDPFYWVSPG-  
HHHHHH

**Purity:** Greater than 95% as determined by SDS- PAGE and RP-HPLC.

**Accession number:** Q16653

### SOLUBILITY

Reconstitute lyophilized MOG in sterile 10mM acetic acid to no less than 100ug/ml which can be further diluted in other aqueous solutions as needed.

### STORAGE AND STABILITY

Although stable at room temperature for 3 weeks, the lyophilized product is best stored at or below -20°C. Upon reconstitution, MOG can be stored at 4°C for up to 1 week but is best stored at or below -20°C for longer periods of time. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage.