

Recombinant Human Myelin Oligodendrocyte Glycoprotein

ORDERING INFORMATION

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

Formulation: Lyophilized white powder from sterile-filtered solution in 20mM sodium acetate buffer, pH 4.0 and 0.3M NaCl. Purified by proprietary chromatographic techniques.

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 in 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.

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.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

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.

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