
Product Data Sheet

Product Name: MOG Human
Cat. No.: GP23941
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms Myelin Oligodendrocyte Glycoprotein; MOG; MOGIG-2; MGC26137.

Amino Acid Sequence MGQFRVIGPRHPICALVGVDELPCRISSPGKNATGMEVGVYRPPFSRVVHLYRNGKDQDGDQAPEYRGRTELLKDAIGEGKVTLRIRNVRFSDDEGGFTC

Solubility It is recommended to reconstitute the lyophilized MOG in sterile 50mM Acetic acid not less than 100µg/ml, which can then be further formulated. The Myelin Oligodendrocyte Glycoprotein was lyophilized from a 0.2µm filtered solution in 20mM HAC-NaAc and 150mM NaCl pH-4.

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.

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.

Background

Myelin Oligodendrocyte Glycoprotein produced in E.Coli is a single, non-glycosylated polypeptide chain containing a total of 132 amino acids (Met + 30-154 a.a. + 6x His tag at C-terminus) and having a total molecular mass of 15.2 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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