
Product Data Sheet

Product Name: MOG
 Cat. No.: GP23940
 Batch No.: 1

Product Data

Purity	>98%	Source	
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Myelin Oligodendrocyte Glycoprotein; MOG.		
Amino Acid Sequence	H-Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-Val-His-Leu-Tyr-Arg-Asn-Gly-Lys-OH.		
Solubility	It is recommended to reconstitute the lyophilized MOG in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized with no additives.		

Introduction

MOG is a transmembrane protein expressed on the surface of oligodendrocyte cell and on the outermost surface of myelin sheaths. MOG comprises about 0.1% of total CNS myelin protein. The MOG gene is a member of the immunoglobulin gene superfamily and is found within the MHC. The MOG gene is found on chromosome 6p21.3-p22. Myelin Oligodendrocyte Glycoprotein is a glycoprotein thought to be significant in the process of myelination of nerves in the central nervous system (CNS). MOG peptide (35-55) is highly encephalitogenic and can induce strong T and B cell responses. A single injection of this peptide produces a relapsing-remitting neurologic disease with extensive plaque-like demyelination. Because of the clinical, histopathologic, and immunologic similarities with multiple sclerosis (MS), the MOG induced demyelinating encephalomyelitis may serve as a model for investigating MS.

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

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

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Myelin Oligodendrocyte Glycoprotein is a single, non-glycosylated polypeptide chain containing 21 amino acids and having a molecular mass of 2582 Dalton, the molecular formula: C₁₁₈H₁₇₇N₃₅O₂₉S.

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