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MOG - Purified

Catalog No.: AR10743PU-N

Quantity: 20 mg

Background: 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 myelinization 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, histophathologic, and immunologic similarities with multiple sclerosis (MS), the MOG induced demyelinating encephalomyelitis may serve as a model for investigating MS.

Source: Synthetic

Format: **State:** Sterile Filtered White lyophilized (freeze-dried) powder with no additives
Purity: › 98.0% as determined by both RP-HPLC and SDS-PAGE analysis
Reconstitution: Restore in sterile 18MΩ-cm^{-1} H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions

Description: Myelin Oligodendrocyte Glycoprotein is a single, non-glycosylated polypeptide chain containing 21 amino acids.
Amino Acid Composition: H-Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-Val-His-Leu-Tyr-Arg-Asn-Gly-Lys-OH.
Molecular weight: 2582 Da

Storage: Prior to reconstitution store at 2-8°C.
Following reconstitution store undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.