Product Information Sheet

Product Name: Recombinant Mouse MOG Protein
Catalog Number: 55150-100, 55150-500, 55150-1000
Lot Number: See label on the vial
Amount/size: 100 μg, 500 μg, 1000 μg

Source: The sequence (Accession # NP_034944) corresponding to the extracellular domain of mouse MOG along with a 6x His tag was expressed in E. coli. The recombinant mouse MOG (M-rMOG) was purified from urea denatured bacterial lysate using immobilized metal affinity chromatography (IMAC). The molecular weight of the recombinant mouse MOG is 14.2 kDa.

Activity: Female C57BL/6NHsd and SJL/JCrHsd mice (9-10 weeks old) were immunized (s.c.) with 100 μg/animal of mouse rMOG in complete Freund’s adjuvant followed by 400 ng/mouse injection of pertussis toxin on day 0 and day 2 (i.p.). Mice showed EAE symptoms such as limp tail, hind limb weakness, or hind limb paralysis after induction. Please note that no other EAE induction protocols were tested including IFA/cytokine model.

Purity: Greater than 95% as determined by SDS-PAGE.

Endotoxin (EU/μg): Less than 0.1 EU per 1 μg of the protein as determined by Limulus Amebocyte Lysate (LAL) quantitative kinetic assay.

Storage: The purified mouse rMOG is supplied as sterile and frozen at 1 mg/ml in 25 mM sodium acetate buffer (pH=4.0). Store at 2-4 ºC for immediate use within 3 weeks or at –80 ºC for up to 12 months. Avoid repeated freeze-thaw cycles.

Instructions:
Myelin Oligodendrocyte Glycoprotein (MOG) is a member of the immunoglobulin superfamily and is expressed exclusively in central nervous system (CNS). Although MOG protein constitutes only 0.01-0.05% of the CNS myelin proteins, it was demonstrated that MOG protein is a crucial autoantigen for multiple sclerosis in humans and experimental autoimmune encephalomyelitis (EAE) in rodents and monkeys (1-5). The purified mouse rMOG is recommended for in vitro studies such as T cell and B cell responses, cytokine response, antigen presentation, Western blotting, and ELISA as well as for in vivo study such as EAE induction in mice. The following dosages are recommended: 5-20 μg/ml for in vitro study and 50 μg per animal for in vivo study (1-5).

Please note, mouse MOG must be thoroughly mixed directly with Complete Freund’s Adjuvant (CFA). Do not dilute recombinant mouse MOG with buffers that have pH greater than 4.5! Protein will precipitate at pH higher than 4.5!

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References:

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