Product Information Sheet

Product Name: Recombinant Rat MOG Protein
Catalog Number: AS-55152-100, AS-55152-500, AS-55152-1000
Lot Number: See label on the vial
Amount/size: 100 μg, 500 μg, 1000 μg
Source: The sequence (Accession #CAE84068) corresponding to the extracellular domain of rat MOG along with a 6x His tag was expressed in E. coli. The recombinant rat MOG (R-mOG) was purified from urea denatured bacterial lysate using immobilized metal affinity chromatography (IMAC). The molecular weight of the recombinant rat MOG is 14.2 kDa.
Activity: Female DA rats and Lewis rats (7-9 weeks old) were immunized (tail base s.c.) with 50-75 μg/animal of rat rMOG in complete Freund’s adjuvant. DA and Lewis rats showed EAE symptoms such as limp tail, hind limb weakness, hind limb paralysis, and weight loss 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 Ameocyte Lysate (LAL) quantitative kinetic assay.
Storage: The purified rat rMOG is supplied as sterile and frozen at 1 mg/ml in 25 mM sodium acetate buffer (pH=4.0). Store at -80 °C 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 rat 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 rats. The following dosages are recommended: 5-20 μg/ml for in vitro study and 50-75 μg per animal for in vivo study (1-5). **Please note, rat MOG must be thoroughly mixed directly with Complete Freund’s Adjuvant (CFA). Do not dilute recombinant rat MOG with buffers that have pH greater than 4.5! Protein will precipitate at pH higher than 4.5!**

©AnaSpec, Inc. 34801 Campus Drive, Fremont, CA 94555
Tel: (800)-452-5530 | service@anaspec.com | www.anaspec.com
Related Products:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Cat. #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recombinant mouse MOG (1-125)</td>
<td>AS-55150</td>
</tr>
<tr>
<td>Recombinant human MOG (1-125)</td>
<td>AS-55158</td>
</tr>
<tr>
<td>SensoLyte® Anti-Human MOG (1-125) Mouse IgG Specific ELISA Kit</td>
<td>AS-55153-M</td>
</tr>
<tr>
<td>SensoLyte® Anti-Human MOG (1-125) Human IgG Specific ELISA Kit</td>
<td>AS-55153-H</td>
</tr>
<tr>
<td>SensoLyte® Anti-Mouse MOG (1-125) IgG Quantitative ELISA Kit</td>
<td>AS-55156</td>
</tr>
<tr>
<td>SensoLyte® Anti-Rat MOG (1-125) IgG Quantitative ELISA Kit</td>
<td>AS-55157</td>
</tr>
</tbody>
</table>

References:


For Research Use Only.