

## Recombinant Mouse Mog Protein, His-tagged

Cat. No. Mog-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Mog protein, a DNA sequence encoding the extracellular domain of Mouse MOG (NP_034944, Q61885) (aa1-116) was expressed in E. coli with a N-terminal polyhistidine tag.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-116 a.a.
<b>Description</b>	<p>Myelin oligodendrocyte glycoprotein (MOG) is a transmembrane protein belonging to immunoglobulin superfamily, and contains an Ig-like domain followed by two potential membrane-spanning regions. MOG is expressed only in the CNS with very low content (approximately 0.1% total proteins) in oligodendrocyte membrane. Three possible functions for MOG were suggested: (a) a cellular adhesive molecule, (b) a regulator of oligodendrocyte microtubule stability, and (c) a mediator of interactions between myelin and the immune system, in particular, the complement cascade. A direct interaction might exist between the membrane-associated regions of MOG and the myelin-specific glycolipid galactocerebroside (Gal-C), and such an interaction may have important consequences regarding the membrane topology and function of both molecules. It is considered that MOG is an autoantigen capable to produce a demyelinating multiple sclerosis-like disease in experimental animals.</p>
<b>Form</b>	Supplied as lyophilized powder or solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	DTT, pH7.4.
<b>Molecular Mass</b>	The Predicted molecular weight is ~17kDa. It migrates as an approximately 19kDa band in SDS-PAGE under reducing conditions.
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE
<b>Storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, store at -70°C for up to twelve months from date of receipt. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized Mouse rMOG in sterile and pre-cooled ddH <sub>2</sub> O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Mog myelin oligodendrocyte glycoprotein [ Mus musculus ]</a>
<b>Official Symbol</b>	Mog
<b>Synonyms</b>	MOG; myelin oligodendrocyte glycoprotein; myelin-oligodendrocyte glycoprotein; B230317G11Rik;
<b>Gene ID</b>	<a href="#">17441</a>
<b>mRNA Refseq</b>	<a href="#">NM_010814</a>
<b>Protein Refseq</b>	<a href="#">NP_034944</a>

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