

Recombinant Mouse Mog Protein, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	E.coli
ProteinLength	1-116 a.a.
Description	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 oligodendrogliaocyte 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.
Form	Supplied as lyophilized powder or solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM

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	DTT, pH7.4.
Molecular Mass	The Predicted molecular weight is ~17kDa. It migrates as an approximately 19kDa band in SDS-PAGE under reducing conditions.
Purity	Greater than 95% as determined by SDS-PAGE
Storage	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.
Reconstitution	It is recommended to reconstitute the lyophilized Mouse rMOG in sterile and pre-cooled ddH ₂ O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	Mog myelin oligodendrocyte glycoprotein [Mus musculus]
Official Symbol	Mog
Synonyms	MOG; myelin oligodendrocyte glycoprotein; myelin-oligodendrocyte glycoprotein; B230317G11Rik;
Gene ID	17441
mRNA Refseq	NM_010814
Protein Refseq	NP_034944

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