

## Recombinant Human MOG Protein (Gly30-Tyr149), His tagged

Cat. No. MOG-4585H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human MOG (Gly30-Tyr149) fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Gly30-Tyr149
<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 .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>	Lyophilized powder/frozen liquid
<b>Molecular Mass</b>	15.39 kDa

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<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Notes</b>	For research use only.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	MOG myelin oligodendrocyte glycoprotein [ Homo sapiens (human) ]
<b>Official Symbol</b>	MOG
<b>Synonyms</b>	MOG; myelin oligodendrocyte glycoprotein; myelin-oligodendrocyte glycoprotein; MOG Ig-AluB; MOG alpha-5; MOGIG2; NRCLP7; MGC26137;
<b>Gene ID</b>	4340
<b>mRNA Refseq</b>	NM_001008228
<b>Protein Refseq</b>	NP_001008229
<b>MIM</b>	159465

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UniProt ID

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