

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

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

SPECIFICATION

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

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Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	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.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

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

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UniProt ID

Q16653

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