

Active Recombinant Mouse Mog Protein, His-tagged

Cat. No. Mog-02M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Mog Protein (Gly29-Gly153), with a C-terminal 10-His tag, was expressed in mouse myeloma cell line.
Species	Mouse
Source	NS0
ProteinLength	29-153 a.a.
Description	Predicted to enable signaling receptor binding activity. Predicted to be involved in T cell receptor signaling pathway and regulation of cytokine production. Predicted to act upstream of or within cell adhesion. Located in myelin sheath. Is expressed in brain and cerebellum. Human ortholog(s) of this gene implicated in multiple sclerosis; narcolepsy; and optic neuritis. Orthologous to human MOG (myelin oligodendrocyte glycoprotein).
Bio-activity	Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons. Recombinant Mouse MOG, immobilized at 1 µg/mL on a 96-well plate, is able to significantly enhance neurite outgrowth.
Molecular Mass	19-29 kDa
N-terminal Sequence Analysis	Gly29

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Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 90% by SDS-PAGE with silver staining
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Mog myelin oligodendrocyte glycoprotein [<i>Mus musculus</i> (house mouse)]
Official Symbol	Mog
Synonyms	Mog; myelin oligodendrocyte glycoprotein; B230317G11Rik; myelin-oligodendrocyte glycoprotein
Gene ID	17441
mRNA Refseq	NM_010814
Protein Refseq	NP_034944
UniProt ID	Q61885

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