Recombinant Mouse Mag Protein, Fc-tagged

Cat. No. Mag-476M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Mag (NP_034888.1) (Met1-Pro516) was expressed with the Fc region of human IgG1 at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Pro516
Description	The myelin-ass centigradeiated glycoprotein (MAG) contains five immunoglobulin-like domains and belongs to the sialic-acid-binding subgroup of the Ig superfamily. MAG is a transmembrane glycoprotein of 100kDa l centigradealized in myelin sheaths of periaxonal Schwann cell and oligodendroglial membranes where it functions in glia-axon interactions. It appears to function both as a receptor for an axonal signal that promotes the differentiation, maintenance and survival of oligodendr centigradeytes and as a ligand for an axonal receptor that is needed for the maintence of myelinated axons. MAG contains a carbohydrate epitope shared with other glyc centigradeonjugates that is a target antigen in autoimmune peripheral neuropathy ass centigradeiated with IgM gammopathy and has been implicated in a dying back oligodendrogliopathy in multiple sclerosis. MAG is considered as a transmembrane protein of both CNS and PNS myelin and it strongly inhibits neurite outgrowth in both developing cerebellar and adult dosal root ganglion neurons. In contrast, MAG promotes neurite outgrowth from newborn DRG neurons. Thus, MAG may be responsible for the lack of CNS nerve regeneration and may influce both temporally

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	and spatially regeneration in the PNS.
Predicted N Terminal	Gly 20
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant mouse Mag consists of 735 amino acids and predicts a molecular mass of 81.6 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at-70 centigrade. Store it under sterile conditions at-20 centigrade to-80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Mag myelin-associated glycoprotein [Mus musculus]
Official Symbol	Mag
Synonyms	MAG; myelin-associated glycoprotein; Gma; siglec-4a; MGC123387;
Gene ID	17136

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mRNA Refseq	NM_010758
Protein Refseq	NP_034888

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