

Recombinant Human myelin associated glycoprotein Protein, His&Flag tagged

Cat. No. MAG-066H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human MAG/Siglec-4a protein (P20916) (Gly 20-Pro 516) with both His, Flag tag at the C-terminus was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

20-516aa

Description

Adhesion molecule that mediates interactions between myelinating cells and neurons by binding to neuronal sialic acid-containing gangliosides and to the glycoproteins RTN4R and RTN4RL2. Not required for initial myelination, but seems to play a role in the maintenance of normal axon myelination. Protects motoneurons against apoptosis, also after injury; protection against apoptosis is probably mediated via interaction with neuronal RTN4R and RTN4RL2. Required to prevent degeneration of myelinated axons in adults; this probably depends on binding to gangliosides on the axon cell membrane. Negative regulator of neurite outgrowth; in dorsal root ganglion neurons the inhibition is mediated primarily via binding to neuronal RTN4R or RTN4RL2 and to a lesser degree via binding to neuronal gangliosides. In cerebellar granule cells the inhibition is mediated primarily via binding to neuronal gangliosides. In sensory neurons, inhibition of neurite extension depends only partially on RTN4R, RTN4RL2 and gangliosides. Inhibits axon longitudinal growth.

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Tag	C-His&Flag
Molecular Mass	57.4 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	MAG myelin associated glycoprotein [Homo sapiens (human)]
Official Symbol	MAG
Synonyms	MAG; myelin associated glycoprotein; GMA; myelin-associated glycoprotein; S MAG; sialic acid binding Ig like lectin 4A; SIGLEC 4A; SIGLEC4A; sialic acid binding Ig-like lectin 4A; sialic acid-binding immunoglobulin-like lectin 4A; S-MAG; SIGLEC-4A;
Gene ID	4099
mRNA Refseq	NM_001199216

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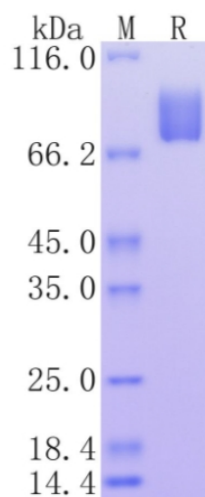
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Protein Refseq NP_001186145

MIM 159460

UniProt ID P20916

Protein on SDS-PAGE under reducing (R) condition.



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