

Recombinant Human Myelin oligodendrocyte glycoprotein/MOFG Protein

Catalog No.: RP01361

Sequence Information

Species **Gene ID**
Human 4340

Swiss Prot **Tags**
Q16653 C-His

Synonyms

BTN6, BTNL11, MOGIG2, NRCLP7,
MOG,BTNL11,MOGIG2,NRCLP7

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
15.11 kDa 15-25 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1-0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Myelin oligodendrocyte glycoprotein (MOG) is a transmembrane protein belonging to the 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 0.1% total proteins) in the 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 demyelinating multiple sclerosis-like diseases in experimental animals.

Basic Information

Description

Recombinant Human Myelin oligodendrocyte glycoprotein/MOFG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly30-Gly154) of human MOG (Accession #NP_996532.2) fused with a 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human MOG at 1 μg/mL (100 μL/well) can bind Myelin oligodendrocyte glycoprotein Rabbit mAb with a linear range of 0.98-2.5 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

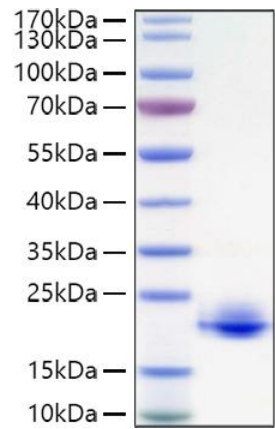
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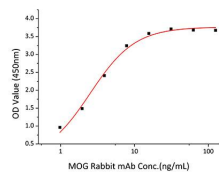
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Validation Data



Recombinant Human Myelin oligodendrocyte glycoprotein/MOG Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human MOG at 1 μ g/mL (100 μ L/well) can bind Myelin oligodendrocyte glycoprotein Rabbit mAb with a linear range of 0.98–2.5ng/mL