

Recombinant Human Myelin oligodendrocyte glycoprotein/MOFG Protein

Catalog No.: RP01361 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4340	Q16653

Tags

C-His

Synonyms

BTN6; BTNL11; MOGIG2;
NRCLP7;MOG;BTNL11;MOGIG2;NRCLP7

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
15.11 kDa	22 kDa

Endotoxin

<0.1EU/μg

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.

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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 oligodendroglial cell 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.

Bio-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

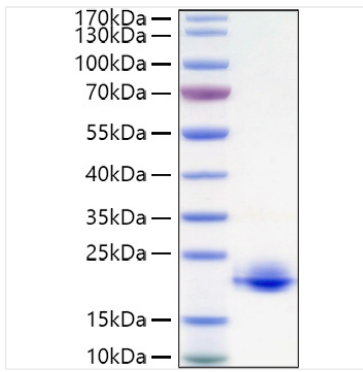
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

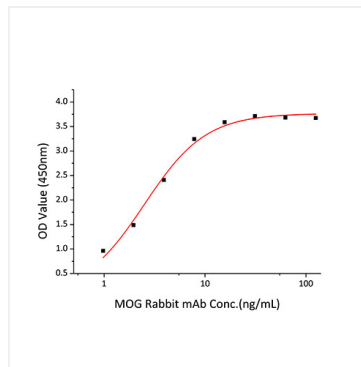
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Myelin-oligodendrocyte glycoprotein/MOG Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 22kDa.



Immobilized Human MOG at 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Myelin oligodendrocyte glycoprotein Rabbit mAb with a linear range of 0.98-2.5ng/mL.