

Myelin Oligodendrocyte Glycoprotein Human Recombinant

Item Number	rAP-3665
Synonyms	Myelin Oligodendrocyte Glycoprotein, MOG, MOGIG-2, MGC26137.
Description	Myelin Oligodendrocyte Glycoprotein produced in E.Coli is a single, non-glycosylated polypeptide chain containing a total of 132 amino acids (Met + 30-154 a.a. + 6x His tag at C-terminus) and having a total molecular mass of 15.2 kDa.
Uniprot Accesion Number	Q16653
Amino Acid Sequence	MGQFRVIG- PRHPIRALVGDEVELPCRISPGKNATGMEVGWYRPPFSRVVHLYRNGKDQDGDQAPEYRGRTTELLKDAIG EGKVTLRIRNVRFSDDEGGFTCFFRDHSYQEEAAMELKVEDPFYVVSPGHHHHHH.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized MOG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MOG should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Formulation and Purity	The Myelin Oligodendrocyte Glycoprotein 0.5mg/ml solution was lyophilized from 20mM sodium acetate buffer pH-4 and 0.3M sodium chloride. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	5-20µg per ml for In-Vitro Experiments and 50-100µg per animal for In-Vivo study. The protein can be used for T-cell proliferation, cytokine induction, antigen presentation, western blotting, ELISA and EAE induction in mice.
Solubility	It is recommended to reconstitute the lyophilized MOG in sterile 10mM Acetic acid not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**