Datasheet for ABIN1097170

MOG Protein (AA 30-154)

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Overview

Quantity:	50 µg
Target:	MOG
Protein Characteristics:	AA 30-154
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Purpose:	Recombinant Human Myelin Oligodendrocyte Glycoprotein/MOG
Sequence:	MGQFRVIGPR HPIRALVGDE VELPCRISPG KNATGMEVGW YRPPFSRVVH LYRNGKDQDG DQAPEYRGRT ELLKDAIGEG KVTLRIRNVR FSDEGGFTCF FRDHSYQEEA AMELKVEDPF YWVSPGHHHH HH
Characteristics:	Recombinant Human Myelin Oligodendrocyte Glycoprotein/MOG is produced with our E. coli expression system. The target protein is expressed with sequence (Gly30-Gly154) of Human MOG protein.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	MOG
Alternative Name:	mog-protein (MOG Products)
Background:	Myelin Oligodendrocyte Glycoprotein (MOG) is a transmembrane protein, which is expressed exclusively in the CNS. MOG contains a single Ig-domain exposed to the extracellular space that allows autoantibodies easy access. MOG protein has been identified as a crucial autoantigen for multiple sclerosis in humans. MOG is capable to produce a demyelinating multiple sclerosis-like diseases in experimental animals, namely experimental autoimmune encephalomyelitis (EAE), in rodents and monkeys. Alternative Names: Myelin-Oligodendrocyte Glycoprotein, MOG
Molecular Weight:	15.2 kDa
UniProt:	Q16653

Application Details

Comment:	Biological activity: Tested for capability to induce EAE in rodents and monkeys
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM HAc-NaAc, 150 mM NaCl, pH 4.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months