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Datasheet for ABIN7197067
MOG Protein (AA 30-149) (His tag)

Overview

Quantity:	50 µg
Target:	MOG
Protein Characteristics:	AA 30-149
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOG protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human MOG Protein (aa 30-149, His Tag)
Sequence:	Gly 30-Tyr 149
Characteristics:	A DNA sequence encoding the extracellular domain of human MOG (NP_996532.2) (Gly 30-Tyr 149) was expressed, fused with a polyhistidine tag at the C-terminus and an additional Met at the N-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.

Target Details

Target:	MOG
Alternative Name:	MOG (MOG Products)
Background:	Background: Myelin oligodendrocyte glycoprotein (MOG) is a transmembrane protein belonging to immunoglobulin superfamily, and contains an Ig-like domain followed by two potential

Target Details

membrane-spanning regions. MOG is expressed only in the CNS with very low content (approximately 0.1 % total proteins) in oligodendroglial 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 a demyelinating multiple sclerosis-like disease in experimental animals.

Synonym: Myelin-Oligodendrocyte Glycoprotein, MOG,BTN6,BTNL11,MOGIG2,NRCLP7

Molecular Weight: 15 kDa

NCBI Accession: [NP_996532](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.