

## OriGene Technologies Inc.

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## AR10743PU-S

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## **MOG** - Purified

Catalog No.: AR10743PU-S

Quantity: 5 mg

Background: MOG is a transmembrane protein expressed on the surface of oligodendrocyte cell and on

the outermost surface of myelin sheaths. MOG comprises about 0.1% of total CNS myelin protein. The MOG gene is a member of the immunoglobulin gene superfamily and is found

within the MHC. The MOG gene is found on chromosome 6p21.3-p22.

Myelin Oligodendrocyte Glycoprotein is a glycoprotein thought to be significant in the

process of myelinization of nerves in the central nervous system (CNS).

MOG peptide (35-55) is highly encephalitogenic and can induce strong T and B cell

responses.

A single injection of this peptide produces a relapsing-remitting neurologic disease with

extensive plaque-like demyelination.

Because of the clinical, histophathologic, and immunologic similarities with multiple sclerosis (MS), the MOG induced demyelinating encephalomyelitis may serve as a model

for investigating MS.

**Source:** Synthetic

Format: State: Sterile Filtered White lyophilized (freeze-dried) powder with no additives

Purity: > 98.0% as determined by both RP-HPLC and SDS-PAGE analysis

**Reconstitution:** Restore in sterile  $18M\Omega$ -cm<sup>-1</sup> H<sub>2</sub>O not less than 100 µg/ml, which can then

be further diluted to other aqueous solutions

**Description:** Myelin Oligodendrocyte Glycoprotein is a single, non-glycosylated polypeptide chain

containing 21 amino acids.

Amino Acid Composition: H-Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-His-

Leu-Tyr-Arg-Asn-Gly-Lys-OH. **Molecular weight:** 2582 Da

**Storage:** Prior to reconstitution store at 2-8°C.

Following reconstitution store undiluted at 2-8°C for one week or (in aliquots) at -20°C for

longer.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

