

Certificate of Analysis

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Product Name: MOG (35-55)

Catalog No.: 2568

Batch No.: 9

CAS Number: 149635-73-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₁₈ H ₁₇₇ N ₃₅ O ₂₉ S
Batch Molecular Weight:	2581.97
Physical Appearance:	White lyophilised solid
Net Peptide Content:	72.5%
Counter Ion:	TFA
Solubility:	Soluble to 0.50 mg/ml in water
Storage:	Desiccate at -20°C
Peptide Sequence:	Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-Val-His-Leu-Tyr-Arg-Asn-Gly-Lys

2. ANALYTICAL DATA

HPLC:	Shows 98.4% purity
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Myelin oligodendrocyte glycoprotein (MOG) 35-55 is a minor component of CNS myelin. Produces a relapsing-remitting neurological disease with extensive plaque-like demyelination, common to the manifestations of multiple sclerosis. Induces strong T and B cell responses and is highly encephalitogenic.

Physical and Chemical Properties:

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Batch Molecular Weight: 2581.97

Physical Appearance: White lyophilised solid

Peptide Sequence:

Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-Val-His-Leu-Tyr-Arg-Asn-Gly-Lys

Storage: Desiccate at -20°C. This product is packaged under an inert atmosphere.

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble to 0.50 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 72.5% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Zhang *et al* (2004) T cell and antibody responses in remitting-relapsing experimental autoimmune encephalomyelitis in (C57BL/6xSJL) F1 mice. *J.Neuroimmunol.* **148** 1. PMID: 14975581.

Slavin *et al* (1998) Induction of a multiple sclerosis-like disease in mice with an immunodominant epitope of myelin oligodendrocyte glycoprotein. *Autoimmunity* **28** 109. PMID: 9771980.

Ichikawa *et al* (1996) Analysis of the fine B cell specificity during the chronic/relapsing course of a multiple sclerosis-like disease in Lewis rats injected with the encephalitogenic myelin oligodendrocyte glycoprotein peptide 35-55. *J.Immunol.* **157** 919. PMID: 8752946.

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