



## Product Data Sheet

**Product Name:** MOG (35-55), mouse, rat

**Catalog Number:** AS-60130-1 (1 mg)      **Lot Number:** See label on vial  
AS-60130-5 (5 mg)  
AS-60130-10 (10 mg)

**Sequence:** H-Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-Val-His-Leu-Tyr-Arg-Asn-Gly-Lys-OH (3-letter code)  
MEVGWYRSPFSRVVHLYRNGK (1-letter code)

**Molecular Weight:** 2582.0

**% Peak Area by HPLC:**  $\geq 95$

**Appearance:** Lyophilized white powder

**Peptide Reconstitution:** Use distilled or higher quality water. Add water directly to the lyophilized peptide powder to obtain a final concentration of approximately 0.5 mg/mL to 1mg/mL or less. Gently vortex to mix. For peptides that have poor solubility in the suggested solvent, brief sonication may increase solubility in some cases.

**Storage:** Peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at  $-20^{\circ}\text{C}$  or lower. Reconstituted peptide can be aliquoted and stored at  $-20^{\circ}\text{C}$  or lower.

**Description:** This peptide\* induced anti-MOG(35-55) autoantibody production in C57BL/6 mice with 100% incident (10/10), providing quantitative support for the suitability of the MOG peptide for *in vivo* anti-MOG(35-55) autoantibody study. Cysteine containing MOG (35-55) peptide induced polyclonal anti-MOG(35-55) antibody production in rabbits with high specificity, high affinity, and high titer indicating its high purity, as well as suitability for peptide-coated ELISA and Western blot assay. \*Tested for lot# 61918 & 71369

**Additional Information:** Listed below are relevant information that may provide a guideline on how to use this product. End users will have to adapt to their own specific applications.

MOG (35-55) peptides (MEVGWYRSPFSRVVHLYRNGK) were purchased from AnaSpec. EAE was induced in WT and different mutant mice 8 to 12 weeks of age by immunization of mice s.c. with 200  $\mu\text{l}$  of an emulsion containing 200  $\mu\text{g}$  MOG (35-55) peptides in 100  $\mu\text{l}$  PBS and 100  $\mu\text{l}$  CFA. CFA was prepared by mixing of incomplete Freund's adjuvant (DIFCO Laboratories) with 8 mg/ml of *Mycobacterium tuberculosis* H37RA (desiccated; DIFCO Laboratories) – [Guo, B. et al. J Clin Invest 118, 1680 \(2008\)](#).

The MOG (35-55) peptide (MEVGWYRSPFSRVVHLYRNGK) was obtained from Anaspec (San Jose, CA), and purified to  $>98\%$  purity by reverse phase HPLC analysis. Mice were injected subcutaneously (two 100  $\mu\text{L}$  injections into adjacent areas in one hind limb) with an emulsion of 300  $\mu\text{g}$  MOG (35-55) dissolved in 100  $\mu\text{L}$  PBS, mixed with 100  $\mu\text{L}$  CFA containing 500  $\mu\text{g}$  of *Mycobacterium tuberculosis* (Difco, Detroit, MI) – [Sharp, A. et al. J Neuroinflamm 5, 33 \(2008\)](#).

MOG peptides (35-55), (40-54), or (44-54) which have previously been utilized in the MOG EAE disease model, and in which CD8<sup>+</sup> T cell responses have been implicated. The peptides were purchased or synthesized by Anaspec Inc., San Jose, CA. Briefly, peptides were emulsified (1.5 mg/ml) in complete freund's adjuvant (CFA; Sigma, St Louis, MO) containing 200ng/ml *Mycobacterium tuberculosis* (Difco, Detroit, MI). Emulsion was then deposited

Published Citations:

[Polak, P. et al. \*Brain\* 10.1093/brain/awq362 \(2011\).](#) [Simonini, M. et al. \*ASN Neuro\* 10.1042/AN20090033 \(2010\).](#) [Li, Q. et al. \*Am J Pathol\* 175, 661 \(2009\).](#) [Li, Q. et al. \*Mol Immunol\* 46, 2885 \(2009\).](#) [Guo, B. et al. \*J Clin Invest\* 118, 1680 \(2008\).](#) [Sharp, A. et al. \*J Neuroinflamm\* 5, 33 \(2008\).](#) [Frausto, R. et al. \*J Neuroimmuno\* 192, 124 \(2007\).](#)

Related Products:

Name	Cat #	Size
MOG (35 - 55), human (MEVGWYRPPFSRVVHLYRNGK)	AS-63918	1 mg
Recombinant mouse MOG (1 - 125)	AS-55150-100 AS-55150-500 AS-55150-1000	100 ug 500 ug 1000 ug
Recombinant human MOG (1 - 125)	AS-55158-100 AS-55158-500 AS-55158-1000	100 ug 500 ug 1000 ug
Recombinant rat MOG (1 - 125)	AS-55152-100 AS-55152-500 AS-55152-1000	100 ug 500 ug 1000 ug
SensoLyte® Anti-Human MOG (1-125) IgG Quantitative ELISA Kit	AS-55153	1 kit
SensoLyte® Anti-Mouse MOG (1-125) IgG Quantitative ELISA Kit	AS-55156	1 kit
SensoLyte® Anti-Rat MOG (1-125) IgG Quantitative ELISA Kit	AS-55157	1 kit
SensoLyte® Anti-MOG(35-55) IgG Quantitative ELISA Kit (mouse/rat)	AS-54465	1 kit

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