

## Certificate Of Analysis

### Quality Control Testing and Research Application

COA Preparation Date: 30/01/2017

COA Revision Date: 30/01/2020

**Product:** MOG (35-55) (mouse, rat)  
**Cat. No.:** NB-48-0630-50MG  
**Batch No.:** 0328BP/09  
**Chemical Name:** Myelin oligodendrocyte glycoprotein (35-55) (mouse, rat)

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{118}H_{177}N_{35}O_{29}S$   
**Batch Molecular Weight:** 2581.95  
**CAS No.:**  
**Physical Appearance:** White lyophilised solid  
**Melting Point:**  
**Solubility:** Soluble in water  
**Storage:** Desiccate at  $-20^{\circ}C$   
**Batch Molecular Structure:**

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

**Product Description:** Myelin Oligodendrocyte Glycoprotein (MOG) fragment that induces severe chronic experimental autoimmune encephalomyelitis in transgenic mice. MOG is found exclusively in the CNS, where it is localized on the surface of Myelin and Oligodendrocyte cytoplasmic membranes. It has been implicated as an important autoantigen in Multiple Sclerosis (MS).

**References:** 1. Encinas et al. (1999) Nature Gen 21:158; 2. Hisahara (2000) EMBO J 19:341; 3. Ford and Evavold (2003) Immunology 171:1247; 4. Frausto et al. (2007) J Neuroimmunol 192:124

- CAUTION - Not fully tested. For Research use only. Not for human use. –

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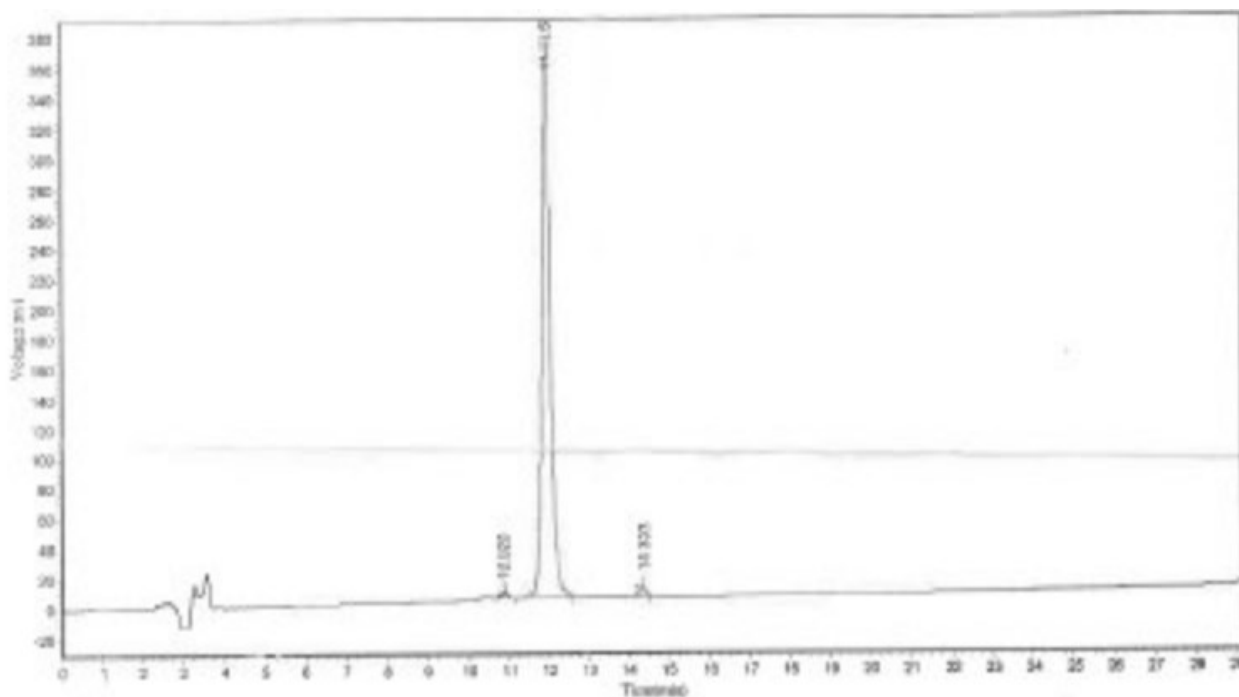
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### 2. ANALYTICAL DATA

HPLC:	corresponds to the reference		
MS:	corresponds to the reference		
Tests:	HPLC Assay: 98.31% (complies).		
Column:	4.6 *250mm, kromasil C18 5um		
Solvent A:	0.1% Trifluoroacetic in 100 % Acetonitrile		
Solvent B:	0.1% Trifluoroacetic in 100% Water		
Gradient:	A	B	
	0.01min	25%	75%
	25min	50%	50%
	25.1min	100 %	0%
	30.0min		stop
Flow rate :	1.0ml/min		
Wavelength:	220nm		
Volume:	20ul		

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Rank	Time	Height	Area	Conc.
1	10.920	2197.135	23927.949	0.4447
2	11.938	367236.688	5290470.000	98.3158
3	14.333	6686.606	66701.094	1.2395
Total				100

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