MOG (35-55) (mouse, rat)

Cat # NB-48-0630-1mg size: 1mg

Product Information

Batch No.:	P220829-SY051716
Chemical Name:	Myelin oligodendrocyte glycoprotein (35-55) (mouse, rat) (1*S*,3*S*)-3-Glycoloyl-1,2,3,4,6,11-hexahydro-3,5,12-trihydroxy-10-methoxy-6,11-dioxo-1-naphthacenyl-(3-amino-2,3,6-tridesoxy-α-L-lyxo-hexopyranosid) hydrochloride; Adriamycin hydrochloride; NSC 123127
Batch Molecular Formula:	$C_{118}H_{177}N_{35}O_{29}S$
Batch Molecular Weight:	2582.01
Physical Appearance:	White to off-white lyophilised solid
Storage:	Desiccate at -20°C
Sequence (three letter code):	H-Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-Val-His-Leu-Tyr-Arg-Asn-Gly-Lys-OH

Solvent and solubility

Soluble in water

Suggested Solvent: H_2O+Acetonitrile

Biological activity

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

NB-48-0352 MOG (35-55) (mouse, rat)

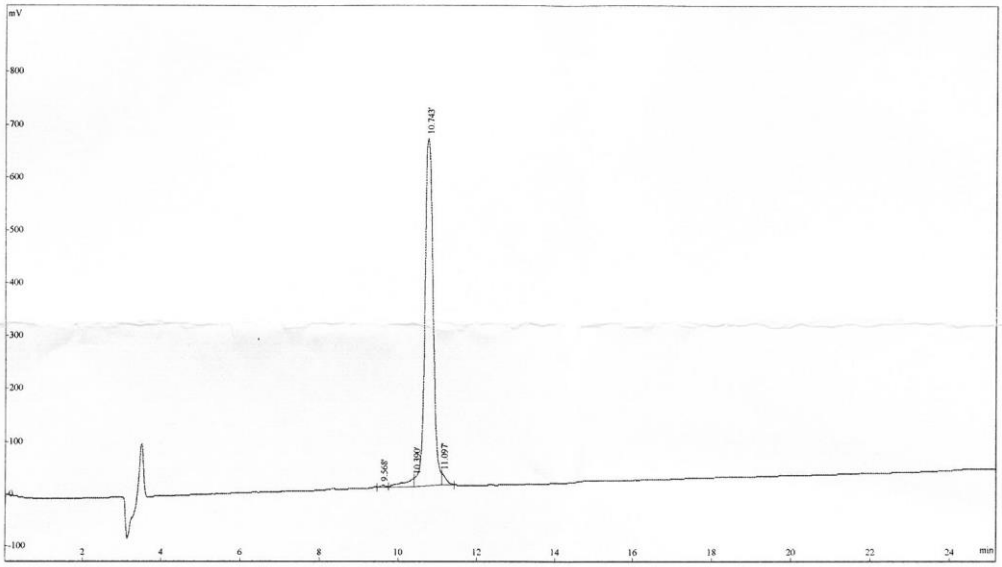
Analytical data

HPLC: > 95.57% (complies).

Lot No : P220829-SY051716
Column : 4.6×250mm, Kromasil 100-5-C18
Solvent A : 0.1% trifluoroacetic in 100% acetonitrile
Solvent B : 0.1% trifluoroacetic in 100% water
Gradient :

	A	B
0.01min	25%	75%
25min	55%	45%
25.1min	100%	0%
30min	STOP	

Flow rate : 1.0 mL/min
Wavelength : 220nm
Volume : 5ul



Rank	Time	Conc.	Area	Height
1	9.568	0.272	26008	2541
2	10.390	2.66	254364	15330
3	10.743	95.57	9140294	655798
4	11.097	1.495	142993	21130
Total		100	9563659	694799

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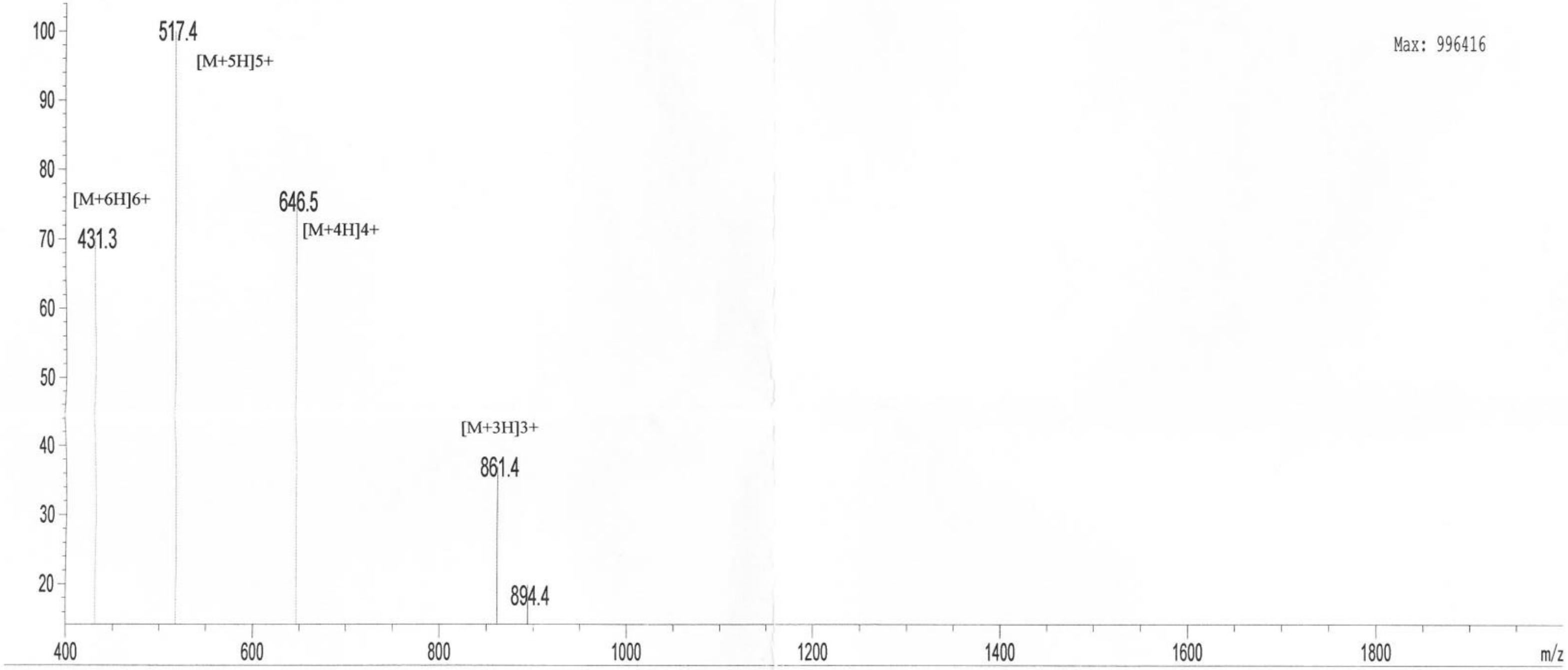
MASS SPECTROMETRY REPORT



Sample Description		Instrument	Agilent-6125B		
Analyzed date:	2022-08-29	Probe:	ESI	Probe Bias:	+4.5kv
Analyst:	YU	Nebulizer Gas Flow:	1.5L/min	Detector:	1.5kv
Sample:	MOG (35-55), Mouse, Rat 051716	CDL:	-20.0v	T. Flow:	0.2ml/min
M.W.:	2582.01	CDL Temp.:	250 °C	B. Conc.:	50%H2O/50%ACN
Lot. No.:	P220829-SY051716	Block Temp.:	200 °C		

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