

Product Data Sheet

Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat TFA

Cat. No.:	HY-P1240A			
Molecular Formula:	$C_{120}H_{178}F_{3}N_{35}O_{31}S$			
Molecular Weight:	2695.97			
Sequence:	Met-Glu-Val-Gly-Trp-Tyr-Arg-Ser-Pro-Phe-Ser-Arg-Val-Val-His-Leu-Tyr-Arg-Asn-Gly-Lys MEVGWYRSPFSRVVHLYRNGK (TFA salt)			
Sequence Shortening:	MEVGWYRSPFSRVVHLYRNGK			
Target:	Others			
Pathway:	Others			
Storage:	Sealed storage, away from moisture and light, under nitrogen			
	Powder -80°C 2 years			
	-20°C 1 year			
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture			
	and light, under nitrogen)			

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 50 mg/mL (18.55 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	0.3709 mL	1.8546 mL	3.7092 mL		
		5 mM	0.0742 mL	0.3709 mL	0.7418 mL		
		10 mM	0.0371 mL	0.1855 mL	0.3709 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (37.09 mM); Clear solution; Need ultrasonic						

Description	Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat (MOG (35-55)) TFA is a minor component of CNS myelin. Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat TFA has encephalitogenic activity and induces T cell proliferative. Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat TFA induces Th1 cytokine response as well as			
	relatively high levels of IgG antibodies. Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat TFA produces a relapsing-remitting neurological disease with extensive plaque-like demyelination ^{[1][2][3]} .			
In Vitro	Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat (MOG (35-55); 0-50 μg/mL; 72 h; lymph nodes cells) TFA induces T?cell proliferative and secretes Th1 cytokines including IFN-γ, TNF-α, IL-10, IL-4 and IL-5. Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat TFA increases the level of IgG ^[1] .			

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo	Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat TFA can be used in animal modeling to construct mouse encephalomyelitis model.				
	Myelin Oligodendrocyte Glycoprotein Peptide (35-55) TFA (MOG (35-55); 200 μg (0.2 mL); i.p.; once, for 38 d) has encephalitogenic activity in HLA-DR2 (DRB1*1501) mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	HLA-DR2 (DRB1*1501) mice ^[1]			
	Dosage:	200 μg (0.2 mL)			
	Administration:	Intraperitoneal injection; once, for 38 days			
	Result:	Resulted in paralysis of both hind and forelimbs.			

CUSTOMER VALIDATION

- Cell Death Dis. 2022 Sep 2;13(9):759.
- Acta Physiol. 2023 Apr 25.
- Int Immunopharmacol. 2022 Jan 29;105:108566.
- Research Square Print. September 28th, 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Rich C, et, al. Myelin oligodendrocyte glycoprotein-35-55 peptide induces severe chronic experimental autoimmune encephalomyelitis in HLA-DR2-transgenic mice. Eur J Immunol. 2004 May;34(5):1251-61.

[2]. Slavin A, et, al. Induction of a multiple sclerosis-like disease in mice with an immunodominant epitope of myelin oligodendrocyte glycoprotein. Autoimmunity. 1998;28(2):109-20.

[3]. Giralt M, et, al. Active Induction of Experimental Autoimmune Encephalomyelitis (EAE) with MOG35-55 in the Mouse. Methods Mol Biol. 2018;1791:227-232.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA