Myelopeptide-2

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®

Cat. No.:	НҮ-Р3736	
CAS No.:	137833-31-9	
Molecular Formula:	C ₄₁ H ₅₇ N ₇ O ₈	
Molecular Weight:	775.93	
Sequence Shortening:	LVVYPW	
Target:	Interleukin Related	
Pathway:	Immunology/Inflammation	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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BIOLOGICAL ACTIVITY				
Description	Myelopeptide-2 is a peptide originally isolated from the supernatant of porcine bone marrow cell cultures, can restore mitogenic reactivity of human T lymphocytes inhibited by HL-60 leukemia cells or measles virus conditions. Myelopeptide-2 also recover depressed interleukin-2 (IL-2) synthesis and interleukin-2 receptor (IL-2R) expression. Myelopeptide-2 involves in immunity homeostasis, is perspective to be applied in antitumor and antivirus research ^{[1][2]} .			
IC ₅₀ & Target	IL-2			
In Vitro	Myelopeptide-2 (1 ng/mL-0.1 mg/mL; 72 h) restores phytohemagglutinin (PHA, 2.5 mg/mL)-induced proliferation of human peripheral blood T lymphocytes ^[1] . Myelopeptide-2 (0.1 mg/mL and 1 mg/mL; 1-3 d) increases the level of the reduced IL-2 synthesis in human T lymphocytes damaged by HL-60 or measles virus ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Myelopeptide-2 (10 μg/kg; injection; for 20-50 weeks) delays the appearance of urethane-induced tumors and decreases the number of spontaneous and urethane-induced lung tumors in mice with short-term treatment ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Male BALB/c mice (3-month-old) with spontaneous lung tumors ^[2]		
	Dosage:	10 μg/kg; accompanied with 0.5 mg/kg <u>Urethane</u> (HY-B1207) or not		
	Administration:	Routine injection; (1) 1 injection of MP-2 and after 7 days 3 injections of MP-2 every other day, (2) or alternating with injections of urethane (4 injections of MP-2; 3 injections of urethane+4 injections of MP-2); (3) 3 injections of MP-2 every other day or (4) alternating with injections of urethane and after 3 weeks 2 injections of MP-2 monthly with one-week interval, a total of 22 injections (25 injections of MP-2; 3 injections of urethane+25 injections of MP-2). For 20-50 weeks.		
	Result:	Significantly lowered the incidence of urethane-induced lung adenomas in animals receiving 4 injections of MP-2 compared to the group receiving urethane alone or in combination with 25 injections of MP-2.		

REFERENCES

[1]. Mikhailova AA, et al. Myelopeptide-2 recovers interleukin-2 synthesis and interleukin-2 receptor expression in human T lymphocytes depressed by tumor products or measles virus. J Immunother. 2006 May-Jun;29(3):306-12.

[2]. Mikhailova AA, et al. Effect of myelopeptide-2 on the development of spontaneous and urethane-induced tumors in mice. Bull Exp Biol Med. 2002 Jan;133(1):68-70.

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

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