EPO mimetic peptide-1

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Cat. No.:	HY-P3756	
CAS No.:	186526-28-3	
Molecular Formula:	$C_{94}H_{135}N_{25}O_{26}S_{2}$	
Molecular Weight:	2095.36	
Sequence Shortening:	GGTYSCHFGPLTWVCKPQGG	
Target:	Others	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY			
Description	EPO mimetic peptide-1 (EMP-1), a 20 amino acid peptide. EPO mimetic peptide-1 stimulates cell proliferation, affects cell cycle and induces the production of reticulocytes in vivo ^[1] .		
In Vitro	 EPO mimetic peptide-1 shows inhibition of tracer ¹²⁵I-labeled EPO binding with an IC₅₀ value of 0.2 μM^[1]. EPO mimetic peptide-1 (0-50 mM; 48 h) stimulates proliferation of both TF-1 and B6Sut cells in a dose-dependent manner^[1]. EPO mimetic peptide-1 (1 and 10 μM) promots erythroid colony formation from human peripheral blood and murine bone marrow^[1]. EPO mimetic peptide-1 (10 μM; 10 min) induces the phosphorylation of proteins^[1]. EPO mimetic peptide-1 (1 and 10 μM; 0-18 h) affects cell cycle^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1] 		
	Cell Line:	FDCP-I/mEPOR cell line	
	Concentration:	10 µM	
	Incubation Time:	10 min	
	Result:	Induced the phosphorylation of proteins with apparent molecular weights of 140, 95, 70, and 55 Kd.	
	Cell Cycle Analysis ^[1]		
	Cell Line:	FDCP-I/mEPOR cell line	
	Concentration:	10 μΜ	
	Incubation Time:	0, 6, 8, 10, 12 and 18 h	
	Result:	Increased cell progression into S phase.	
In Vivo	EPO mimetic peptide-1 (1 and 2 mg; once) induces the production of reticulocytes over the background of endogenous in normal, untreated mice containing endogenous basal levels of EPO mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Wrighton NC, et al. Small peptides as potent mimetics of the protein hormone erythropoietin. Science. 1996 Jul 26;273(5274):458-64.

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

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