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Mouse Vascular Endothelial Growth Factor-120 (mVEGF₁₂₀)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
20-26	#Q00731	22339
Background	VEGF ₁₂₀ , a splice variant of the VEGF-A gene, is the murine counterpart to human VEGF ₁₂₁ (1,2). VEGF ₁₂₀ is produced by endothelial cells, macrophages, T cells, and others. VEGF ₁₂₀ is involved in angiogenesis, vascular permeability, vascular endothelial cell survival, growth, and migration (1). VEGF ₁₂₀ expression is induced by hypoxia, inflammatory cytokines, and through oncogene products in tumors (1,2). VEGF ₁₂₀ binds to VEGFR1 and VEGFR2 receptor tyrosine kinases (1). Binding of VEGF ₁₂₀ to VEGFR1 and VEGFR2 leads to activation of pathways involving PI3K/Akt, p38, and FAK (1). VEGF plays a key role in tumor angiogenesis in many cancers (2).	
Endotoxin	Less than 0.01 ng endotoxin/1µg mVEGF ₁₂₀ .	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant mVEGF ₁₂₀ . All lots are greater than 98% pure.	
Source / Purification	Recombinant mouse VEGF ₁₂₀ (mVEGF ₁₂₀) Ala27-Arg146 (Accession #NP_001020428) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant mVEGF ₁₂₀ was determined in a cell proliferation assay using HUVEC. The ED ₅₀ of each lot is between 1-5 ng/ml.	
Background References	<ol style="list-style-type: none"> 1. Takahashi, H. and Shibuya, M. (2005) <i>Clin Sci (Lond)</i> 109, 227-41. 2. Neufeld, G. et al. (1999) <i>FASEB J</i> 13, 9-22. 	

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