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Human Vascular Endothelial Growth Factor-121 (hVEGF₁₂₁)

10 µg

For Research Use Only. Not for Use in Diagnostic Procedures.

MW (kDa):	UniProt ID:	Entrez-Gene Id:
14-21	#P15692-1	7422
Background	VEGF ₁₂₁ is the second most abundant splice variant of VEGF-A (1,2). VEGF ₁₂₁ is produced by endothelial cells, macrophages, T-cells and other cell types. VEGF ₁₂₁ is involved in angiogenesis, vascular endothelial cell survival, growth, migration and vascular permeability (1). VEGF ₁₂₁ expression is induced by hypoxia, inflammatory cytokines and through oncogene products in tumors (1-3). VEGF ₁₂₁ binds to VEGFR1 and VEGFR2 receptor tyrosine kinases (1). Binding of VEGF ₁₂₁ to VEGFR1 and VEGFR2 leads to activation of pathways involving PI3K/AKT, P38 MAPK, and FAK (1). VEGF plays a key role in tumor angiogenesis in many cancers (2).	
Endotoxin	Less than 0.01 ng endotoxin/1µg hVEGF ₁₂₁ .	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant hVEGF ₁₂₁ . All lots are greater than 98% pure.	
Source / Purification	Recombinant human VEGF ₁₂₁ (hVEGF ₁₂₁) Ala207-Arg327 (Accession #NP_001020541.2) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant hVEGF ₁₂₁ was determined in a cell proliferation assay using HUVEC. The ED ₅₀ of each lot is between 0.5-2 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. 3. Robinson, C.J. and Stringer, S.E. (2001) <i>J Cell Sci</i> 114, 853-65. 4. Sarabipour, S. et al. (2016) <i>Elife</i> 5, e13876. 	

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