

Recombinant Human Vascular Endothelial Growth Factor B

Cat. No. VEGFB-640H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VEGFB protein was expressed in E. coli.
Species	Human
Source	Human
Description	VEGFB, a member of the VEGF family, is a potent growth and antigenic cytokine. It promotes DNA synthesis in endothelial cells, helps regulate angiogenesis and vascular permeability, and inhibits apoptosis in certain smooth muscle cells and neurons. VEGFB is expressed in all tissues except the liver. It forms cell surface-associated disulfide linked homodimers and can form heterodimers with VEGF-A. There are two known isoforms, formed by alternative splicing, which have been designated VEGFB167 and VEGFB186. Both forms have identical amino-terminal sequences encoding a "cytokine knot" like structural motif, but differ in their carboxyl-terminal domains.
Concentration	1.0-2.0 ug/ml
Form	Supplied as a lyophilized powder.
Purity	> 98% pure by SDS PAGE and HPLC
Sequence	Region of VEGFB protein corresponding to amino acids: PVSQPDAPGH QRKVVSVIDV YTRATCQPREVVVPLTVELM GTVAKQLVPS CVTVQRCGGC CPDDGLECVP TGQHQVRMQI LMIRYPSSQL GEMSL EEHSQCECRPKKKDS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	AVKPDSPRPL CPRCTQHHQR PDPRTCRCRC RRRSFLRCQG RGLELNPDTC RCRKLRR
Applications	Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	VEGFB
GENE INFORMATION	
Gene Name	VEGFB vascular endothelial growth factor B [Homo sapiens]
Synonyms	VEGFB; vascular endothelial growth factor B; VRF; VEGFL; Vascular endothelial growth factor B; VEGF-B; VEGF-related factor
Gene ID	7423
mRNA Refseq	NM_003377
Protein Refseq	NP_003368
MIM	601398
UniProt ID	P49765
Chromosome Location	11q13
Pathway	Cytokine-cytokine receptor interaction; Focal adhesion; Pancreatic cancer; Renal cell

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carcinoma; mTORsignaling pathway; Hemostasis; Signaling by VEGF

Function

chemoattractant activity; growth factor activity; heparin binding; protein binding;vascular endothelial growth factor receptor binding; proteinheterodimerization activity; protein homodimerization activity

**PDBrendering based
on 2c7w.**

