

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	<p>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.</p>
Concentration	1.0-2.0 ug/ml
Form	Supplied as a lyophilized powder.
Purity	> 98% pure by SDS PAGE and HPLC
Sequence	<p>Region of VEGFB protein corresponding to amino acids: PVSQPDAPGH QRKVVSWIDV YTRATCQPREVVVPLTVELM GTVAKQLVPS CVTVQRCGGC CPDDGLECVP TGQHQVRMQI LMIRYPSSQL GEMSLEEHSQCECRPKKKDS</p>

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AVKPDSRPL 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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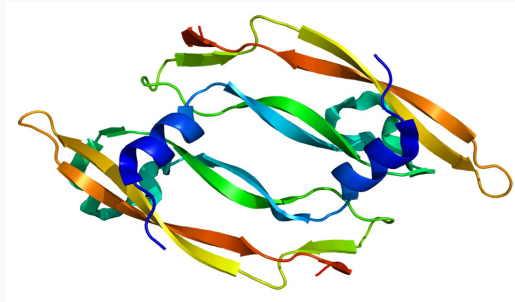
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carcinoma; mTORsignaling pathway; Hemostasis; Signaling by VEGF

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.



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