

## Active Recombinant Human VEGFB Protein

**Cat. No.** VEGFB-107H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | The mature recombinant human VEGF-B protein (22-188aa) without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>              | This gene encodes a member of the PDGF (platelet-derived growth factor)/VEGF (vascular endothelial growth factor) family. The VEGF family members regulate the formation of blood vessels and are involved in endothelial cell physiology. This member is a ligand for VEGFR-1 (vascular endothelial growth factor receptor 1) and NRP-1 (neuropilin-1). Studies in mice showed that this gene was co-expressed with nuclear-encoded mitochondrial genes and the encoded protein specifically controlled endothelial uptake of fatty acids. Alternatively spliced transcript variants encoding distinct isoforms have been identified. |
| <b>Bio-activity</b>             | Measured by its binding ability in a functional ELISA. Immobilized recombinant rat Neuropilin-1 Fc Chimera at 4 µg/mL (100 µL/well) can bind recombinant human VEGF-B with a linear range of 0.3-20 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>           | 19 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Product-Related Proteins</b> | 22-188                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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**Storage** At -80 centigrade. Avoid repeated freeze-thaw cycles.

**Storage Buffer** PBS

## GENE INFORMATION

**Gene Name** VEGFB vascular endothelial growth factor B [ Homo sapiens (human) ]

**Official Symbol** VEGFB

**Synonyms** VEGFB; vascular endothelial growth factor B; VRF; VEGFL; vascular endothelial growth factor B; Names; VEGF-related factor

**Gene ID** 7423

**mRNA Refseq** NM\_003377

**Protein Refseq** NP\_003368

**MIM** 601398

**UniProt ID** P49765

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