

## Recombinant Human VEGF-D

**CATALOG #:** 4643-50 50 µg  
4643-100 100 µg  
4643-1000 1 mg

**LOT #:** \_\_\_\_\_

**SOURCE:** *E. coli*

**PURITY:** >98% by SDS-PAGE analyses  
Endotoxin level is <0.1 ng per µg of VEGF-D

**FORM:** Lyophilized without additives

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in dH<sub>2</sub>O to a concentration of 0.1-1.0 mg/ml. The solution should be stored at -70°C.

### STORAGE CONDITIONS:

The lyophilized VEGF-D is best-stored at -20°C. Reconstituted VEGF-D should be stored in working aliquots at -70°C.

### DESCRIPTION:

VEGF-D is most closely related to VEGF-C by virtue of the presence of N- and C-terminal extensions that are not found in other VEGF family members. In adult human tissues, VEGF-D mRNA is most abundant in heart, lung, skeletal muscle, colon, and small intestine. Analyses of VEGF-D receptor specificity revealed that VEGF-D is a ligand for both VEGF receptors (VEGFRs) VEGFR-2 (Flk1) and VEGFR-3 (Flt4) and can activate these receptors. However, VEGF-D does not bind to VEGFR-1. Expression of a truncated derivative of VEGF-D demonstrated that the receptor-binding capacities reside in the portion of the molecule that is most closely related in primary structure to other VEGF family members and that corresponds to the mature form of VEGF-C. In addition, VEGF-D is a mitogen for endothelial cells. Recombinant VEGF-D was expressed based on sequence from Genebank Accession# D89630, 20-354 aa.

### PROTEIN SEQUENCE:

QGSSNEHGPKRSSQSTLERSEQQIRAASSLEELLRITHSEDKWKLWRCRLRLKSFTSMDSRSAS  
HRSTRFAATFYDIETLKVIDEWQRTQCSPRETCVEVASELGKSTNTFFKPPCVNVFRCGGCCN  
EESLICMNTSTSYISKQLFEISVPLTSVPELVPVKVANHTGCKCLPTAPRHPYSIIRRSIQIPEEDRC  
SHSKKLCPIDMLWDSNKCKCVLQEEENPLAGTEDHSHLQEPALCGPHMMFDEDRCECVCKTPCP  
KDLIQHPKNCSCFECKESLETCCQKHKLHPDTCSCEDRCPFHTRPCASGKTACAKHCRFPKEK  
RAAQGPHSRKNP

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Apoptosis Inducers and Set

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

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- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- CETP & PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol and HDL/LDL Quantification Kits

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- Lactate, pyruvate, Ascorbic Acid, Glycogen, Aconitase Assay Kits
- ATP, ADP, Amino Acids, Calcium, Iron, FAD, Urea, Ammonia Assay Kits
- Catalase, Coenzyme A, Citrate, Choline, Ethanol, Fatty Acid Assay Kits
- Creatine, Creatinine, Glutathione, Nitric Oxide, glycerol Assay Kits
- Heme, Hydrogen Peroxide, b-HB, a-Ketoglutarate, NAD(P)/NAD(P)H Assays
- Sarcosine, Sialic Acid, Starch, Thioredoxin, Chloride, Glutamate Assay Kits

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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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