

## Vascular Endothelial Growth Factor (rHuVEGF) Active Protein | VEGFA active protein

Recombinant Human Vascular Endothelial Growth Factor

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA47955</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Vascular Endothelial Growth Factor (rHuVEGF); Recombinant Human Vascular Endothelial Growth Factor; Recombinant Human Vascular Endothelial Growth Factor (rHuVEGF); VEGFA active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                   |
| Specificity             | Recombinant Human Vascular Endothelial Growth Factor (rHuVEGF)                                                                                                                                                                                                                                           |
| Purity/Purification     | Greater than 98% by RP-HPLC, anion-exchange chromatography; reducing and non-reducing SDS-PAGE, silver stain.<br>Purification: Chromatographic                                                                                                                                                           |
| Form/Format             | Sterile filtered, lyophilized.                                                                                                                                                                                                                                                                           |
| Sequence Length         | 232                                                                                                                                                                                                                                                                                                      |
| Dimers/Aggregates       | <1% by SDS-PAGE                                                                                                                                                                                                                                                                                          |
| Biological Activity     | The biological activity is determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells using a concentration of 1.0 to 8.0 ng/ml.                                                                                                                        |
| Endotoxin Level         | <0.1 ng/ug                                                                                                                                                                                                                                                                                               |
| Protein Content         | Determined spectrophotometrically at 280nm (extinction coefficient 0.2875) and by RP-HPLC analysis against a calibrated standard.                                                                                                                                                                        |
| Solubility              | Reconstitute the lyophilized product in sterile water not less than 100 ug/ml.                                                                                                                                                                                                                           |
| Stabilizer              | None                                                                                                                                                                                                                                                                                                     |
| Preservatives           | None                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage | Lyophilized product is stable at room temperature for 3 weeks. Store lyophilized product desiccated at -20 degree C. Upon reconstitution, store at 4 degree C for 2-7 days or aliquot and store at -20 degree C. For long-term storage add either HSA or BSA to 0.1%. Avoid repeated freeze-thaw cycles. |

### ADDITIONAL INFORMATION

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|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for VEGFA active protein | Recombinant Human VEGF produced in E. coli is a double, non-glycosylated, polypeptide chain containing 165 amino acids with a molecular mass of 38,231 daltons. This product has full biological activity. |
| Product Categories/Family for VEGFA active protein   | <a href="#">Recombinant Proteins</a>                                                                                                                                                                       |

### NCBI AND UNIPROT INFORMATION

|             |                       |
|-------------|-----------------------|
| NCBI GI #   | <a href="#">37659</a> |
| NCBI GeneID | <a href="#">7422</a>  |

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|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt Accession #              | P15692; O60720; O75875; Q074Z4; Q16889; Q5UB46; Q6P0P5; Q96KJ0; Q96L82; Q96NW5; Q9H1W8; B5BU86; Q59FH5; Q6WZM0; Q71S09; Q96FD9; Q9UNS8                                                                                                                                                                                                                                                                                                     |
| Molecular Weight                 | 27,042 Da                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NCBI Official Full Name          | vascular endothelial growth factor                                                                                                                                                                                                                                                                                                                                                                                                         |
| NCBI Official Synonym Full Names | vascular endothelial growth factor A                                                                                                                                                                                                                                                                                                                                                                                                       |
| NCBI Official Symbol             | VEGFA                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NCBI Official Synonym Symbols    | VPF; VEGF; MVCD1; MGC70609                                                                                                                                                                                                                                                                                                                                                                                                                 |
| NCBI Protein Information         | vascular endothelial growth factor A; OTTHUMP00000016487; OTTHUMP00000016488; OTTHUMP00000165985; OTTHUMP00000165986; OTTHUMP00000165987; OTTHUMP00000224107; OTTHUMP00000224108; OTTHUMP00000224109; OTTHUMP00000224153; OTTHUMP00000224154; OTTHUMP00000224423; OTTHUMP00000224424; OTTHUMP00000224425; OTTHUMP00000224426; OTTHUMP00000224427; OTTHUMP00000224428; OTTHUMP00000224429; OTTHUMP00000224430; vascular permeability factor |
| UniProt Protein Name             | Vascular endothelial growth factor A                                                                                                                                                                                                                                                                                                                                                                                                       |
| UniProt Gene Name                | <b>VEGFA</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UniProt Synonym Gene Names       | VEGF                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| UniProt Entry Name               | VEGFA_HUMAN                                                                                                                                                                                                                                                                                                                                                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/vascular-endothelial-growth-factor-rhuvegf/47955>