

Active Recombinant Human VEGFA, Isoform 165, His-tagged, Biotinylated

Cat. No. VEGFA-711H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Human VEGF165, also known as VEGF, is expressed as a 176-amino acid protein consisting of the region Ala27- Arg191 of VEGF (UniProt Accession #P15692-4, isoform VEGF165) and a C-terminal His-tag. It contains 1 potential sites for N-linked glycosylation and exists as a dimer under non-reducing condition. |
| Source | Human cells |
| Species | Human |
| Tag | His |
| Form | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule). |
| Bio-activity | Binds its receptors (FLT1, KDR) and anti-VEGF monoclonal antibodies with high affinity (KD< 10 nM as measured by ELISA). Stimulates HUVEC (human umbilical vein endothelial cells) proliferation and certain tumor cell growth. |
| Molecular Mass | Calculated molecular mass (kDa): 20.5; Estimated by SDS-PAGE under reducing condition (kDa): ~30 (probably due to glycosylation) |
| AA Sequence | APMAEGGGQNHHEVVKFMDVYQRSY CHPIETLVDFQEQYPDEIEYIFKPS CVPLMRCGGCCNDEGLECVPTees NITMQIMRIKPHQGQHIGEMSFLQH NKCECRPKKDRARQENPCGPCSERR KHLFVQDPQTCKCSCKNTDSRCKA |

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| | RQLELNERTCRCRKPRRSTGHHHHH HHH |
| Endotoxin | <0.1 eu per 1 µg of purified recombinant protein determined by the lal> |
| Purity | >95% judged by SDS-PAGE under reducing condition. |
| Storage | The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | VEGFA vascular endothelial growth factor A [Homo sapiens] |
| Official Symbol | VEGFA |
| Synonyms | VEGFA; vascular endothelial growth factor A; vascular endothelial growth factor , VEGF; VEGF A; VPF; vascular permeability factor; VEGF; MVCD1; MGC70609; |
| Gene ID | 7422 |
| mRNA Refseq | NM_001025366 |
| Protein Refseq | NP_001020537 |
| MIM | |
| UniProt ID | P15692 |

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| Chromosome Location | 6p12 |
| Pathway | Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; |
| Function | cell surface binding; chemoattractant activity; cytokine activity; cytokine activity; extracellular matrix binding; fibronectin binding; growth factor activity; growth factor activity; heparin binding; heparin binding; platelet-derived growth factor receptor binding; protein binding; protein heterodimerization activity; protein homodimerization activity; receptor agonist activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor binding; |