

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

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

SPECIFICATION

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 CHPIETLVDIFQEYPDEIEYIFKPS CVPLMRCGGCCNDEGLECVPTES NITMQIMRIKPHQGQHIGEMSFLQH NKCECRPKKDRARQENPCGPCSERR KHLFVQDPQTCKCSCKNTDSRCKA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RQLELNERTCRCDKPRRSTGHHHHH 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

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;

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