

Active Recombinant Human VEGFA protein

Cat. No. VEGFA-657H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFA protein(P15692-4)(27-191 aa) was expressed in Yeast.
Species	Human
Source	Yeast
ProteinLength	27-191 aa
Form	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 0.02 % Tween-20.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human umbilical vein endothelial cells(HUVEC) is between 1.0-8.0 ng/ml.
Molecular Mass	Theoretically as a disulfide-linked homodimeric protein, the product consists of two 166 amino acid polypeptide chains. As a result of glycosylation, it migrates to at least three bands with molecular weights ranging from 20-31 kDa in SDS-PAGE under reducing conditions.
AASequence	MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRGG CCNDEGLECV PTEESNITMQ IMRIKPHQQG HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR

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Endotoxin	Less than 0.1 EU/μg of rHuVEGF165 as determined by LAL method.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

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
UniProt ID	P15692

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