

Recombinant Active Human VEGFA (VEGF165) Protein, His-tagged(C-ter)

Cat. No. VEGFA-325H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active Human VEGFA (VEGF165) Protein with His tag (C-ter) was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene is a member of the PDGF/VEGF growth factor family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms. [provided by RefSeq, Jul 2008]
Form	Powder
Bio-activity	Determined by its ability to induce HUVEC cells proliferation. The ED50 for this effect

 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

is < 5 ng/mL. The specific activity of recombinant human VEGF165 is approximately > 1.4 x 10⁶ IU/mg.

AA Sequence
 MAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVPLMR
 CGGCCNDEGLECVPTTEESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRAR
 QENPCGPCSERRKHLFVQDPQTCKCCKNTDSRCKARQLELNERTCRCDKPRR

Endotoxin Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.

Purity > 98% (by SDS-PAGE)

Applications SDS-PAGE

Notes For laboratory research only, not for drug, diagnostic or other use.

Storage Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.

Storage Buffer PBS (pH 8.0)

Reconstitution It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name VEGFA vascular endothelial growth factor A [Homo sapiens]

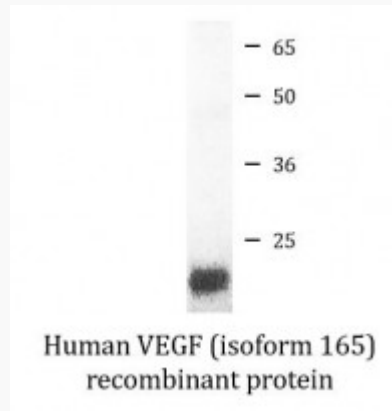
Official Symbol VEGFA

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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

SDS-PAGE

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