cellsciences.com

Vegfa
Recombinant Rat Vascular Endothelial Growth Factor A, Isoform 164

Catalog No.	CRV102A	**Quantity:**	2 µg
	CRV102B		10 µg
	CRV102C		1.0 mg

Alternate Names: VEGF-A, isoform 164, $VEGF_{164}$,VPF, glioma-derived endothelial cell mitogen

Description: Vascular Endothelial Growth Factor is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, VEGF plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates VEGF in the induction of tumor metastasis and intraocular neovascular syndromes. VEGF signals through the three receptors; fms-like tyrosine kinase (flt 1), KDR gene product (the mouse homolog of KDR is the flk-1 gene product) and the flt4 gene product.

UniProt ID: P16612-2

Gene ID: 83785

Source: *E. coli*

Molecular Weight: 38.7 kDa, disulfide-linked homodimeric protein (165 aa monomer)

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.8.

Purity: > 95 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: < 1 EU/µg, by LAL analysis

Biological Activity: ED_{50} < 5 ng/ml, determined by proliferation of human umbilical vein endothelial cells (HUVEC).

Specific Activity: > 2.5×10^5 IU/mg.

Amino Acid Sequence: MAPTTEGEQK AHEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNVTMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com