Rat VEGF-165

Subcategory: Recombinant Active Protein
Cat. No.: 600384
Unit: 0.01 mg

Description:
Vascular Endothelial Growth Factor-A (VEGF-A) was originally isolated from tumor cells and is produced by a wide variety of cell types. In addition to stimulating vascular growth and vascular permeability, VEGF-A may play a role in stimulating vasodilatation via nitric oxide-dependent pathways. VEGF-A has several variants, VEGF-165 being the most abundant. Rat and bovine VEGF are one amino acid shorter than the human factor, and the bovine and human sequences show a homology of 95%. Rat VEGF-165 is produced in E.coli. Recombinant rat VEGF-165 is a disulfide linked homodimer, containing two 165 amino acids chains, with a total molecular weight of 38.8 kDa.

Applications: E, WB

Format: Each vial contains 10 ug of lyophilized protein. Reconstitute with 0.1 ml sterile deionized water for a final concentration of 0.1 mg/ml.

Alternate Names: Vascular endothelial growth factor a; VEFG-a; vascular permeability factor; VPF; VEFGA; VEGF
Accession No.: P16612-2

MW: 38800 Da
Sequence: MAPTTEGEQK AHEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNVTMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR
Source: E. coli. Endotoxin level as measured by LAL is

Purity: Purity > 95% as determined by RP-HPLC and reducing and non-reducing SDS-PAGE. Protein Content determined by UV spectroscopy at 280 nm and analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

Application Notes: The activity is determined by the dose-dependent induced proliferation of Human umbilical vein endothelial cells (HUVECs) and is typically 4.0-8.0 ng/mL. Specific activity: 2.5 x 10e5 units/mg

Storage: Store at -20C. Product is guaranteed one year from the date of shipment. Following reconstitution, store at -20C. We recommend to add a carrier protein (0.1% HSA or BSA) for long term storage.

For research use only, not for diagnostic or therapeutic procedures.