

VEGF active protein

Recombinant Mouse VEGF (164aa)

CATALOG #
AAA214333

HOST
E Coli

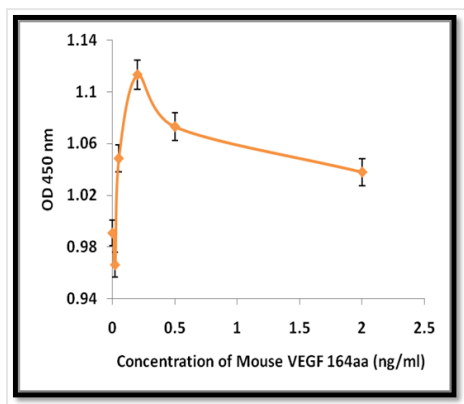
PRODUCT SYNONYMS

VEGF; Recombinant Mouse VEGF (164aa); Vascular endothelial growth factor A; VEGF-A; Vascular permeability factor; VPF; Recombinant Mouse Vascular Endothelial Growth Factor 164AA (VEGFA); VEGF active protein

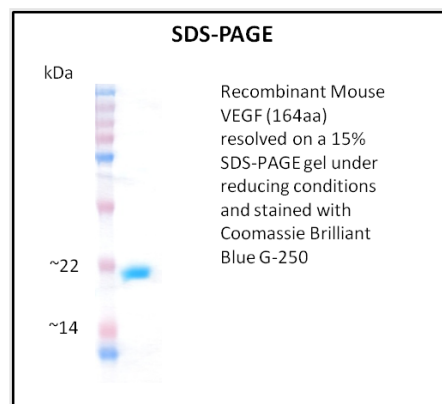
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from 0.2 um filtered PBS solution, pH 7.0.
Sequence Length	392
Bioactivity	The ED(50) was determined by the dose-dependent proliferation of human umbilical vein endothelial cells and was found to be in the range of 2-4 ng/mL.
Endotoxin Level	<1.0 EU/ug of recombinant protein as determined by the LAL method.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least one year from date of receipt at -70 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for VEGF active protein	VEGF is a homodimeric heavily glycosylated protein. The human factor occurs in several molecular variants of 120, 162, 145, 148, 164, 183, 189, 206 amino acids, arising by alternative splicing of the mRNA. The splice forms of VEGF differ in biological properties such as the receptor types, which they recognize and their interaction with heparan sulfate proteoglycans. The 165 amino acid form of the factor is the most common form in most tissues. Kaposi sarcomas express VEGF121 and VEGF165. VEGF121 and VEGF165 are soluble secreted forms of the factor while VEGF189 and VEGF206 are mostly bound to heparin-containing proteoglycans in the cell surface or in the basement membrane. A high-affinity glycoprotein receptor of 170-235 kDa is expressed on vascular endothelial cells. The interaction of VEGF with heparin-like molecules of the extracellular matrix is required for efficient receptor binding. Protamine sulfate and suramin are capable of replacing the receptor-bound factor. The high-affinity receptor for VEGF, now known as VEGFR1, has been identified as the gene product of the FLT-1. Another receptor for VEGF, now known as VEGFR2, is KDR, also known as FLK-1. A factor that competes with the 165 amino acid form of VEGF for receptor binding is PLGF. A third receptor type, VEGFR3 is known also as FLT-4. An isoform-specific receptor for VEGF165 has been identified as human Neuropilin-1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	160358799
NCBI GeneID	22339
NCBI Accession #	NP_001020421.2
NCBI GenBank Nucleotide #	NP_001020421.2
UniProt Accession #	Q00731
Molecular Weight	19.6 kDa
NCBI Official Full Name	vascular endothelial growth factor A isoform 1
NCBI Official Synonym Full Names	vascular endothelial growth factor A
NCBI Official Symbol	Vegfa
NCBI Official Synonym Symbols	Vpf; Vegf
NCBI Protein Information	vascular endothelial growth factor A
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	Vegfa
UniProt Synonym Gene Names	Vegf; VEGF-A; VPF
UniProt Entry Name	VEGFA_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.