

Recombinant Rat Vascular Endothelial Growth Factor 164

Catalog No: #AP60252

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Package Size: #AP60252-1 10ug #AP60252-2 100ug #AP60252-3 500ug

Description

Product Name	Recombinant Rat Vascular Endothelial Growth Factor 164
Host Species	E.coli
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	VPF
Uniprot	P16612
GeneID	83785
Calculated MW	Approximately 38.7 kDa, a disulfide-linked homodimeric protein, consisting of two 165 amino acid polypeptide chains with Met at N-terminus.
Target Sequence	MAPTTEGEQK AHEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNVTMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR
Formulation	LyophilizedB fromB aB 0.2B umB filteredB concentratedB solutionB inB PBS.
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.

Background

Vascular Endothelial Growth Factor is a sub-family of growth factors produced by cells, which stimulates vasculogenesis and angiogenesis. VEGF's normal function is to create new blood vessels during embryonic development, new blood vessels after injury, muscle following exercise, and new vessels (collateral circulation) to bypass blocked vessels. Mouse and rat express alternately spliced isoforms of 120, 164, and 188 amino acids (a.a.) in length. Recombinant Rat VEGF165 contains 165 amino acids residues (with an met at N- terminal) and it is a disulfide-linked homodimer. In addition, it shares 97 % a.a. sequence identity with corresponding regions of mouse, 88 % with human and bovine, 89 % with porcine and canine, and 90 % with feline and equine VEGF, respectively.

Note: This product is for in vitro research use only