Active Recombinant Rat protein

Cat. No. Vegfa-7862R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat protein(27-190 aa) was expressed in Yeast.
Species	Rat
Source	Yeast
ProteinLength	27-190 aa
Form	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED50 for this effect is 0.75-3.75 ng/mL.
Molecular Mass	Theoretically as a disulfide-linked homodimeric protein, the product consists of two 165 amino acid polypeptide chains. As a result of glycosylation, it migrates to at least two bands with molecular weights ranging from 25.7 kDa in SDS-PAGE under reducing conditions.
AASequence	MAPTTEGEQK AHEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNVTMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR
Endotoxin	Less than 0.1 EU/μg of rRtVEGF164, Yeast as determined by LAL method.

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Purity	>95% by SDS-PAGE and 90%
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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Vegfa vascular endothelial growth factor A [Rattus norvegicus]
Official Symbol	Vegfa
Synonyms	VEGFA; vascular endothelial growth factor A; VPF; VEGF-A; vascular permeability factor; Vegf; VEGF164;
Gene ID	83785
mRNA Refseq	NM_001110333
Protein Refseq	NP_001103803

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