

RP01111

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Recombinant Rat VEGF 164 Protein

Catalog No.: RP01111

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Rat	83785	P16612

Tags

No tag

Synonyms

MVCD1;VAS;vascular endothelial growth factor

A;Vasculotropin;VEGF;VEGFA;VEGF-A;VEGFMGC70609;VPF;VEGFA

Product Information

Source	Purification
P.Pichia	> 95% by SDS-PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

This protein is a heparin-binding protein, which exists as a disulfide-linked homodimer. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. This gene is upregulated in many known tumors and its expression is correlated with tumor stage and progression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. There is also evidence for alternative translation initiation from upstream non-AUG (CUG) codons resulting in additional isoforms. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is antiangiogenic. Expression of some isoforms derived from the AUG start codon is regulated by a small upstream open reading frame, which is located within an internal ribosome entry site.

Basic Information

Description

Recombinant Rat VEGF 164 Protein is produced by Yeast expression system. The target protein is expressed with sequence (Ala27-Arg190) of rat VEGF 164 (Accession #P16612-2) fused with no tags.

Bio-Activity

Storage

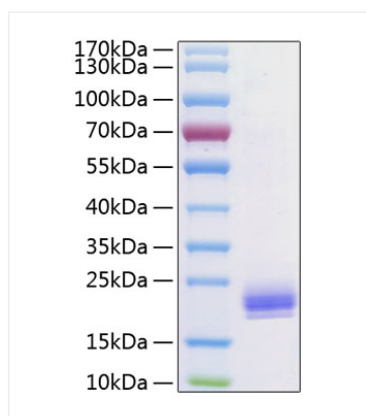
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant Rat VEGF 164 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 18-23 kDa.