

# Recombinant Mouse VEGF164/VEGF-A Protein

Catalog No.: RP00597 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	22339	Q00731-2

### Tags

No tag

### Synonyms

MVCD1; VEGFA; VEGF; VPF; VEGFA (164)

## Product Information

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

### Endotoxin

&lt; 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 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

Mouse Vascular endothelial growth factor (VEGF or VEGF -A), is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the PDGF/VEGF growth factor family that is characterized by a cystine knot structure formed by eight conserved cysteine residues. Alternately spliced isoforms of 120, 164 and 188 aa found in mouse. VEGF binds the type I transmembrane receptor tyrosine kinases VEGF R1 (also called Flt-1) and VEGF R2 (Flk-/KDR) on endothelial cells. Although affinity is highest for binding to VEGF R1, VEGF R2 appears to be the primary mediator of VEGF angiogenic activity. VEGF is required during embryogenesis to regulate the proliferation, migration, and survival of endothelial cells. It may play a role in increasing vascular permeability during lactation, when increased transport of molecules from the blood is required for efficient milk protein synthesis.

## Basic Information

### Description

Recombinant Mouse VEGF164/VEGF-A Protein is produced by P. Pichia expression system. The target protein is expressed with sequence (Ala27-Arg190) of mouse VEGF164/VEGF-A (Accession #Q00731-2).

### Bio-Activity

### Storage

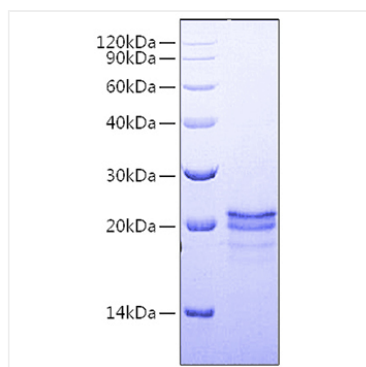
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Mouse VEGF164/VEGF-A Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.