

# Canine VEGF164 Protein

Cat. No. VEG-DM464



## Description

<b>Source</b>	Recombinant Canine VEGF164 Protein is expressed from HEK293 with His tag and Avi tag at the N-terminus. It contains Ala27-Arg190.
<b>Accession</b>	NP_001103972.1
<b>Molecular Weight</b>	The protein has a predicted MW of 22.05 kDa. Due to glycosylation, the protein migrates to 27-33 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

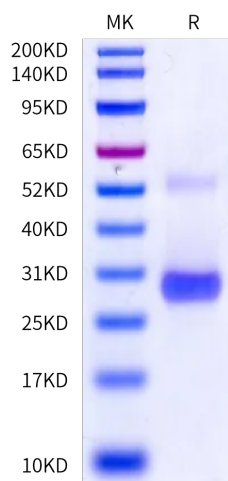
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Vascular endothelial growth factor (VEGF) is an essential regulator of vascularization. It is expressed as several splice variants; the major forms contain 120 amino acids, 164 amino acids, and 188 amino acids. VEGF-A164 induces an extremely heterogeneous response that includes vascular hyperpermeability, extravascular fibrin deposition, edema, angiogenesis (mother vessels, GB, daughter capillaries), arteriovenous malformations, arteriogenesis, fibrogenesis, and lymphangiogenesis.

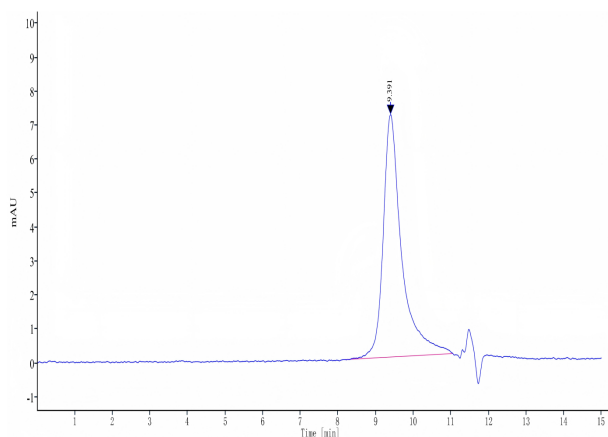
## Assay Data

### Bis-Tris PAGE



Canine VEGF164 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



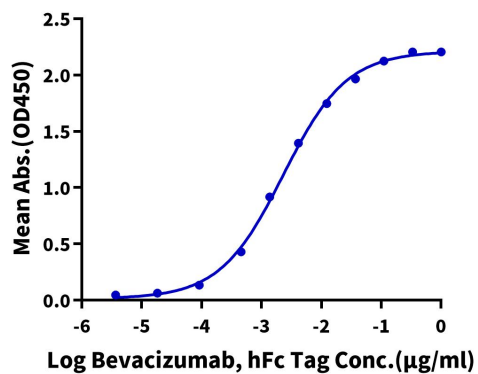
The purity of Canine VEGF164 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Canine VEGF164, His Tag ELISA**

0.05µg Canine VEGF164, His Tag Per Well



Immobilized Canine VEGF164, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Bevacizumab, hFc Tag with the EC50 of 2.3ng/ml determined by ELISA.