

Biotinylated Canine VEGF164 Protein

Cat. No. VEG-DM464B

Description

Source	Recombinant Biotinylated Canine VEGF164 Protein is expressed from HEK293 with His tag and Avi tag at the N-terminus. It contains Ala27-Arg190.
Accession	NP_001103972.1
Molecular Weight	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.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS, 200mM L-arginine (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. 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

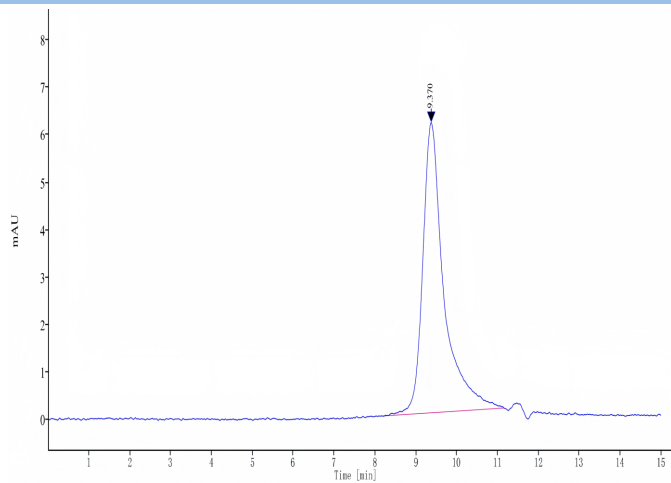
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



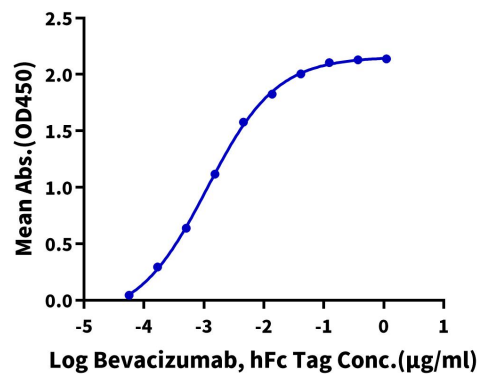
The purity of Biotinylated Canine VEGF164 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Canine VEGF164, His Avi Tag ELISA

0.05µg Biotinylated Canine VEGF164, His Avi Tag Per Well



Immobilized Biotinylated Canine VEGF164, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Bevacizumab, hFc Tag with the EC50 of 1.1ng/ml determined by ELISA.