

Recombinant Canine VEGFA protein(Met1-Arg190)

Cat. No. VEGFA-959C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Canine VEGFA(NP_001103972.1) (Met1-Arg190) was expressed in HEK293.
Species	Canine
Source	HEK293
ProteinLength	Met1-Arg190
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Immobilized canine VEGF164 / VEGFA at 10 µg/ml (100 µl/well) can bind human VEGFR2-Fc, The EC50 of human VEGFR2-Fc is 33.83-78.95 ng/ml. 2. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 2-12 ng/mL.
Molecular Mass	The recombinant canine VEGF164 / VEGFA comprises 164 amino acids and has a predicted molecular mass of 19.1 kDa. The apparent molecular mass of the protein is approximately 23 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE

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Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name VEGFA vascular endothelial growth factor A [*Canis lupus familiaris* (dog)]

Official Symbol VEGFA

Synonyms VEGFA; vascular endothelial growth factor A; VPF; VEGF-A; vascular permeability factor; vascular endothelial growth factor 188

Gene ID 403802

mRNA Refseq NM_001003175

Protein Refseq NP_001003175

UniProt ID Q9MYV3

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