Recombinant Canine VEGFA protein

Cat. No. VEGFA-453C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine VEGFA was expressed in Yeast. Canine VEGF-A was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Canine
Source	Yeast
ProteinLength	188 aa
Description	Vascular endothelial growth factor (VEGF) proteins stimulate vasculogenesis and angiogenesis. They are part of the system that restores the oxygen supply to tissues when blood circulation is inadequate. The normal function of VEGF proteins is to create new blood vessels during embryonic development, new blood vessels after injury, muscle following exercise, and new vessels (collateral circulation) to bypass blocked vessels. The VEGF family has six members, including VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, and Placental Growth Factor (PGF). Activity of VEGF-A, as its name implies, has been studied mostly on cells of the vascular endothelium, although it does have effects on a number of other cell types (e.g., stimulation monocyte/macrophage migration, neurons, cancer cells, kidney epithelial cells). In vitro, VEGF-A has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF-A is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor (VPF).

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Has a predicted molecular weight of 22.0 kDa.
AA Sequence	APMAGGEHKP HEVVKFMDVY QRSYCRPIET LVDIFQEYPD EIEYIFKPSC VPLMRCGGCC NDEGLECVPT EEFNITMQIM RIKPHQGQHI GEMSFLQHSK CECRPKKDRA RQEKKSIRGK GKGQKRKRKK SRYKPWSVPC GPCSERRKHL FVQDPQTCKC SCKNTDSRCK ARQLELNERT CRCDKPRR (188)
Applications	The Canine VEGF-A protein can be used in cell culture, as an VEGF-A ELISA Standard, and as a Western Blot Control.

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Canis lupus familiaris]
Official Symbol	VEGFA
Synonyms	VEGF; VEGF-A; VPF; vascular endothelial growth factor 188; vascular permeability factor
Gene ID	403802
mRNA Refseq	NM_001003175
Protein Refseq	NP_001003175
MIM	
UniProt ID	Q9MYV3
Chromosome Location	chromosome: 12

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Pathway	AGE-RAGE signaling pathway in diabetic complications, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; EPH-Ephrin signaling, organism-specific biosystem
Function	chemoattractant activity; fibronectin binding; receptor agonist activity

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA