

Recombinant Cattle VEGFA protein, His & T7-tagged

Cat. No. VEGFA-590C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle VEGFA aa. (Ala27~Arg145 (Accession # P15691)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Cattle
Source	E.coli
ProteinLength	Ala27~Arg145
Description	This gene is a member of the PDGF/VEGF growth factor family. It encodes a heparin-binding protein, which exists as a disulfide-linked homodimer. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. It is upregulated in many known tumors and its expression is correlated with tumor stage and progression. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is antiangiogenic.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.8kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 7.6.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Bos taurus (cattle)]
Official Symbol	VEGFA
Synonyms	VEGFA; vascular endothelial growth factor A; VPF; VEGF; VEGF-A; eVEGF120; eVEGF164; vascular endothelial growth factor A; vascular endothelial growth factor 164; vascular permeability factor
Gene ID	281572
mRNA Refseq	NM_001316955.1

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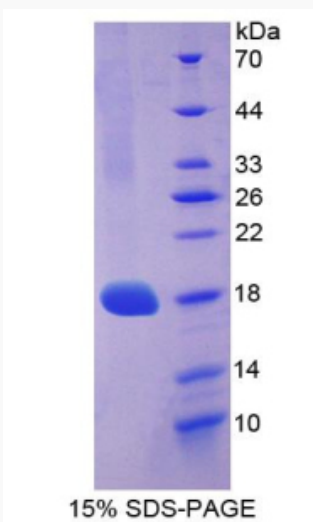
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Protein Refseq NP_001303884.1

UniProt ID P15691

SDS-PAGE



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