

Product datasheet for AR51720PU-N

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VEGF-A (206-325, His-tag) Rat Protein

Product data:

Product Type: Recombinant Proteins

Description: VEGF-A (206-325, His-tag) rat recombinant protein, 0.1 mg

Species: Rat

Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSHMAPTTE GEQKAHEVVK FMDVYQRSYC RPIETLVDIF

QEYPDEIEYI FKPSCVPLMR CAGCCNDEAL ECVPTSESNV TMQIMRIKPH QSQHIGEMSF

LQHSRCECRP KKDRTKPEKC DKPRR

Tag: His-tag

Predicted MW: 16.7 kDa

Concentration: lot specific

Purity: >90% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: Phosphate buffer saline (pH 7.4) containing 50% glycerol.

Preparation: Liquid purified protein

Protein Description: Recombinant Rat VEGFA protein, fused to His-tag at N-terminus, was expressed in E.coli and

purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001103803

Locus ID: 83785

UniProt ID: B5DEK7

Cytogenetics: 9q12

Synonyms: Vegf; VEGF-A; VEGF111; VEGF164; VPF

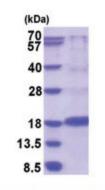




Summary:

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. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. This gene 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 found for this gene. There is also evidence for alternative translation initiation from upstream non-AUG (CUG) codons resulting in additional isoforms. 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. Expression of some isoforms derived from the AUG start codon is regulated by a small upstream open reading frame, which is located within an internal ribosome entry site. [provided by RefSeq, Nov 2015]

Product images:



15% SDS-PAGE (3ug)