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Product datasheet for TP723809

VEGFA (NM_003376) Human Recombinant Protein

Product data:

Description:Purified recombinant protein of Human vascular endothelial growth factor A (VEGFA), transcript variant 2Species:HumanExpression Host:HEXE93Expression cDNA Close or AA Sequence:Human VEGF-165, the region of Ala27-Arg191, from gene Accession# AAM03108Tag:Tag FreePredicted MW:19 kDaConcentration:Iot specificPurity:>98%, as determined by Coomassie stained SDS-PAGE.Buffer:5 mM citric acid, 5 mM NaHPO4, 0.15 M NaCI pH 4.0Bioactivity:The ED50 is 1 - 6 ng/ml, corresponding to a specific activity of 0.16 - 1.0 x 10^6 units/mg, determined by the dose dependent stimulation of HUVEC cells proliferation.Endotoxin:Less than 0.01 ng per µg protein as determined by the LAL methodStorage:Stora at -80°C.Stability:Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated and 8°C for up to 15692RefSeq:3626Locus ID:3626Qitogenetics:3626Qitogenetics:3626Keifesq ORF:1185Keifesq ORF:1185	Product Type:	Recombinant Proteins
Expression Host:HEK293Expression cDNA ClooHuman VEGF-165, the region of Ala27-Arg191, from gene Accession# AAM03108Tag:Tag FreeTag:1 ag FreePredicted MW:9 kDaConcentration:10 specificPurity:98%, as determined by Coomassie stained SDS-PAGE.Buffer:5 mM citric acid, 5 mM NaHPQ4, 0.15 M NaCl pH 4.0Bioactivity:5 mM citric acid, 5 mM NaHPQ4, 0.15 M NaCl pH 4.0Endotoxin:Less than 0.01 ng per µg protein as determined by the Cless proliferation.Storage:Stora t-80°C.Stability:Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated for up to 2 months. Avoid repeated for up to 3 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to 3 months. Avoid repeated stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated stored between 2°C and 8°C for up to a months. Avoid repeated stored between 2°C and 8°C for up to a specific activity of 0.16 and 0	Description:	
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RefSeq ORF: 1185	RefSeq Size:	3626
·	Cytogenetics:	6p21.1
Synonyms: MVCD1; VEGF; VPF	RefSeq ORF:	1185
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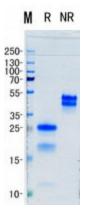
Section 2012 CRIGENE VEGFA (NM_003376) Human Recombinant Protein – TP723809

This gene is a member of the PDGF/VEGF growth factor family. It encodes a heparin-binding Summary: 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. Elevated levels of this protein are found in patients with POEMS syndrome, also known as Crow-Fukase syndrome. Allelic variants of this gene have been associated with microvascular complications of diabetes 1 (MVCD1) and atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been described. 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 inframe 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. The levels of VEGF are increased during infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), thus promoting inflammation by facilitating recruitment of inflammatory cells, and by increasing the level of angiopoietin II (Ang II), one of two products of the SARS-CoV-2 binding target, angiotensin-converting enzyme 2 (ACE2). In turn, Ang II facilitates the elevation of VEGF, thus forming a vicious cycle in the release of inflammatory cytokines. [provided by RefSeq, Jun 2020]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways:Bladder cancer, Cytokine-cytokine receptor interaction, Focal adhesion, mTOR signaling
pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, VEGF signaling
pathway

Product images:



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