

Vascular Endothelial Growth Factor receptor-2 Recombinant Protein | VEGFR2 recombinant protein

Recombinant Human Vascular Endothelial Growth Factor receptor-2

CATALOG # AAA38399	HOST Insect Cells
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PRODUCT SYNONYMS

Vascular Endothelial Growth Factor receptor-2; Recombinant Human Vascular Endothelial Growth Factor receptor-2; VEGFR2 Human; Vascular Endothelial Growth Factor Receptor-2 Human Recombinant; KDR D1-7; sKDR D1-7; Kinase insert domain receptor; Protein-tyrosine kinase receptor Flk-1; CD309; type III receptor tyrosine kinase; FLK1; VEGFR-2; VEGFR2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	KDR was lyophilized from a concentrated (1 mg/ml) sterile solution containing 25mM MES pH-5.5 and 100mM NaCl. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	ASVGLPSVSL DLPRLSIQKD ILTIKANTTL QITCRGQRDL DWLWPNNQSG SEQRVEVTEC SDGLFCKTLT IPKVIGNDTG AYKCFYRETD LASVIYVYVQ DYRSPFIASV SDQHGVVYIT ENKNKTVVIP CLGSISNLNV SLCARYPEKR FVPDGNRISW DSKKGFTIPS YMISYAGMVF CEAKINDESY QSIMYIVVVV GYRIYDVVLS PSHGIELSVG EKLVLNCTAR TELNVGIDFN WEYPSSKHQH KKLVNRLKT QSGSEMKKFL STLTIDGVTR SDQGLYTCAA SSGLMTKKNS TFVRVHEKPF VAFSGMESL VEATVGERVR IPAKYLGYPY PEIKWYKNGI PLESNHTIKA GHVLTIMEVS ERDTGNYTVI LTNPISKEKQ SHVVSLVVYV PPQIGEKSLI SPVDSYQYGT TQTLTCTVYA IPPPHHHHWY WQLEEECANE PSQAVSVTNP YPCEEWRSVE DFQGGNKIEV NKNQFALIEG KNKTVSTLVI QAANVSALYK CEAVNKVGRG ERVISFHVTR GPEITLQPDQ QPTEQESVSL WCTADRSTFE NLTWYKLGPD PLPIHVGELP TPVCKNLDTL WKLNATMFSN STNDILIMEL KNASLQDQGD YVCLAQDRKT KKRHCVVRQL TVLERVAPTI TGNLENQTTS IGESIEVSCT ASGNPPPQIM WFKDNETLVE DSGIVLKDGN RNLTIIRVRK EDEGLYTCQA CSVLGCAKVE AFFIIEGA
Sequence Length	1356
Solubility	It is recommended to reconstitute the lyophilized VEGFR2 in sterile water not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized VEGFR-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FLK1 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for VEGFR2 recombinant protein	Description: Soluble VEGFR-2 Human Recombinant produced in baculovirus is monomeric, glycosylated, polypeptide having a molecular mass of 116 kDa. The soluble receptor protein contains only the first 7 extracellular domains, which contain all the information necessary for ligand binding.The sKDR is purified by proprietary chromatographic techniques. Introduction: Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes. All VEGF-receptors have seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. VEGFR-2 has a lower affinity for VEGF than the Flt-1 receptor, but a higher signaling activity. Mitogenic activity in endothelial cells is mainly mediated by VEGFR-2 leading to their proliferation.Differential splicing of the flt-1 gene leads to the formation of a secreted, soluble variant of VEGFR-1 (sVEGFR-1). No naturally occurring, secreted forms of VEGFR-2 have so far been reported. The binding of VEGF165 to VEGFR-2 is dependent on heparin.
Product Categories/Family for VEGFR2 recombinant protein	Protein Kinases; Enzymes; VEGF Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	11321597
NCBI GeneID	3791
NCBI Accession #	NP_002244.1
NCBI GenBank Nucleotide #	NM_002253.2
UniProt Accession #	P35968; O60723; Q14178; A2RRS0; B5A925; C5IFA0
Molecular Weight	79,634 Da
NCBI Official Full Name	vascular endothelial growth factor receptor 2
NCBI Official Synonym Full Names	kinase insert domain receptor
NCBI Official Symbol	KDR
NCBI Official Synonym Symbols	FLK1; CD309; VEGFR; VEGFR2
NCBI Protein Information	vascular endothelial growth factor receptor 2; fetal liver kinase 1; fetal liver kinase-1; kinase insert domain receptor (a type III receptor tyrosine kinase); protein-tyrosine kinase receptor Flk-1; soluble VEGFR2; tyrosine kinase growth factor receptor
UniProt Protein Name	Vascular endothelial growth factor receptor 2
UniProt Gene Name	KDR
UniProt Synonym Gene Names	FLK1; VEGFR2; VEGFR-2; FLK-1; KDR
UniProt Entry Name	VGFR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.