

VEGFR-2/KDR-Fc Chimera, soluble Active Protein | VEGFR-2/KDR active protein

Human VEGFR-2/KDR-Fc Chimera, soluble

CATALOG # AAA79209	HOST Insect Cells	REACTIVITY Human
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PRODUCT SYNONYMS

VEGFR-2/KDR-Fc Chimera; soluble; Human VEGFR-2/KDR-Fc Chimera; Recombinant Human Soluble VEGFR-2D7/Fc Chimera; Vascular endothelial growth factor receptor 2; Kinase insert domain receptor; CD309; VEGFR-2/KDR active protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Reactivity	Human
Purity/Purification	> 90% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	ASVGLPSVSL DLPRLSIQKD ILTIKANTTL QITCRGQRDL DWLWPNNQSG SEQRVEVTEC SDGLFCKTLT IPKVIGNDTG AYKCFYRETD LASVIYVYVQ DYRSPFIASV SDQHGVMYIT ENKNKTVVIP CLGSISNLNV SLCARYPEKR FVPDGNRISW DSKKGFTIPS YMISYAGMVF CEAKINDESY QSIMYIVVVV GYRIYDVVLS PSHGIELSVG EKLVLNCTAR TELNVGIDFN WEYPSSKHQH KKLVNRLDKT QSGSEMKKFL STLTIDGVTR SDQGLYTCAA SSGLMTKKNS TFVRVHEKPF VAFGSGMESL VEATVGERVR IPAKYLGYPY PEIKWYKNGI PLESNHTIKA GHVLTIMEVS ERDTGNYTVI LTNPISKEKQ SHVVSLLVYV PPQIGEKSLI SPVDSYQYGT TQTLTCTVYA IPPPHHHHWY WQLEEECANES PSQAVSVTNP YPCEEWSRVE DFQGGNKIEV NKNQFALIEG KNKTVSTLVI QAANVSALYK CEAVNKVGRG ERVISFHVTR GPEITLQPDQ QPTEQESVSL WCTADRSTFE NLTWYKLGQP PLPIHVGELP TPVCKNLDL WKLNATMFSN STNDILIMEL KNASLQDQGD YVCLAQDRKT KKRHCVVRL TVLERVAPTI TGNLENQTTT IGESIEVSCT ASGNPPQIM WFKDNETLVE DSGIVLKDGN RNLTIIRVRK EDEGLYTCA CSVLGCAKVE AFFIIEGANA SDKTHTCPPC PAPELLGGPS VLFPPPKPD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSREEMT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPMLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGK
Sequence Length	968
N Terminal Sequence	ASVGLPSV
Buffer	PBS
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20 degree C to -70 degree C. Reconstituted sVEGFR-2/Fc should be stored in working aliquots at -20 degree C. Avoid repeated freeze-thaw cycles!

ADDITIONAL INFORMATION

Related Product Information for VEGFR-2/KDR active protein	Recombinant human soluble Vascular Endothelial Growth Factor Receptor-2 (sVEGFR-2(D7)) was fused with the Fc part of human IgG1. The recombinant mature sVEGFR-2(D7)/Fc is a disulfide-linked homodimeric protein. The soluble receptor protein consists of all 7 extracellular domains (Met1-Ala757), which contain all the information necessary for high affinity ligand binding. 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), and 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 signalling 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.
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Product Categories/Family for VEGFR-2/KDR active protein	Soluble receptors
References	1. Röckl et al., 1998, Exp Cell Res, 241: 161-170.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11321597
NCBI GeneID	3791
NCBI Accession #	NP_002244
NCBI GenBank Nucleotide #	NM_002253
UniProt Accession #	P35968 ; O60723 ; Q14178 ; A2RRS0 ; B5A925 ; C5IFA0
Molecular Weight	145 kDa (Monomer)
NCBI Official Full Name	vascular endothelial growth factor receptor 2
NCBI Official Synonym Full Names	kinase insert domain receptor (a type III receptor tyrosine kinase)
NCBI Official Symbol	KDR
NCBI Official Synonym Symbols	FLK1; CD309; VEGFR; VEGFR2
NCBI Protein Information	vascular endothelial growth factor receptor 2; soluble VEGFR2; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; 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.

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Online datasheet: <https://stage.aaabiotech.com/insect-cells-human-active-protein/vegfr-2-kdr-fc-chimera-soluble/79209>