

Product datasheet for **DA3531**

CD309 / VEGFR-2 / Flk-1 (D1-7) (Fc Chimera) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	CD309 / VEGFR-2 / Flk-1 (D1-7) (Fc Chimera) human recombinant protein, 50 µg
Species:	Human
Expression Host:	Insect
Expression cDNA Clone or AA Sequence:	ASVGLPSVSL DLPRLSIQKD ILTIKANTTL QITCRGQRDL DWLWPNNQSG SEQRVEVTEC SDGLFCKTLT IPKVIGNDTG AYKCFYRETD LASVIYVVVQ DYRSPFIASV SDQHGCVYIT ENKNKTWVIP CLGSISNLNV SLCARYPEKR FVPDGNRISW DSKKGFTIPS YMISYAGMVF CEAKINDESY QSIMYIVVVV GYRIYDVVLS PSHGIELSVG EKLVLNCTAR TELNVGIDFN WEYPSSKHQH KKLVNRDLKT QSGSEMKKFL STLTIDGVTR SDQGLYTCAA SSSLMTKKNS TFVRVHEKPF VAFGSGMESL VEATVGERVR IPAKYLGYPP PEIKWYKNGI PLESNHTIKA GHVLTIMEVS ERDTGNYTVI LTNPISKEKQ SHVSLVWYV PPQIGEKSLI SPVDSYQYGT TQTLTCTVYA IPPPHHHHWY WQLEEECANE PSQAVSVTNP YPCEEWRVSE DFQGGNKIEV NKNQFALIEG KNKTVSTLVI QAANVSALYK CEAVNKVGRG ERVISFHVTR GPEITLQPDM QPTEQESVSL WCTADRSTFE NLTWYKLGPO PLPIHVGELP TPVCKNLDTL WKLNATMFSN STNDILIMEL KNASLQDQGD YVCLAQDRKT KKRHCVWRQL TVLERVAPTI TGNLENQTTT IGESIEVSCT ASGNPPPQIM WFKDNETLVE DSGIVLKDGN RNLTIRRVK EDEGLYTCQA CSVLGC AKVE AFFIEGANA SDKTHTCPPC PAPELLGGPS VFLFPPPKPD TLMISRTPEV TCWVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSREEMT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPMLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGK
Predicted MW:	160 kDa
Purity:	>90% by SDS-PAGE and visualised by silver stain.
Buffer:	Presentation State: Purified State: Lyophilized purified protein Buffer System: PBS, pH 7.2 without stabilizers.
Bioactivity:	Biological: The activity of sVEGFR-2/Fc was determined by its ability to inhibit the VEGF-dependent proliferation of Human umbilical vein endothelial cells. The ED50 for this effect is typically 10-30 ng/ml.
Endotoxin:	< 0.1 ng per µg of sVEGFR-2.



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Reconstitution Method:	The lyophilized sVEGFR-2/Fc should be restored in water or medium to a concentration not lower than 50 µg/ml.
Preparation:	Lyophilized purified protein
Protein Description:	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor-2 (sVEGFR-2 D1-7) was fused with the Fc part of Human IgG1. The recombinant mature sVEGFR-2 D1-7/Fc is a disulfide-linked homodimeric protein. The sVEGFR-2 D1-7/Fc monomers have a mass of approximately 160 kDa. The soluble receptor protein consists of all 7 extracellular domains (Met1-Ala757), which contain all the information necessary for high affinity ligand binding.
Note:	Centrifuge vials before opening!
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_002244
Locus ID:	3791
UniProt ID:	P35968
Cytogenetics:	4q12
Synonyms:	CD309; FLK1; VEGFR; VEGFR2
Summary:	Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, VEGF signaling pathway

Product images:

