

Product datasheet for DA3530X

CD309 / VEGFR-2 / Flk-1 (D1-D7) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	CD309 / VEGFR-2 / Flk-1 (D1-D7) 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 WQLEEECAN E 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 RNLTI RVRK EDEGLYTCQA CSVLGCAKVE AFFIIEGA
Predicted MW:	116 kDa
Purity:	>95% pure as by SDS-PAGE and silver stain.
Buffer:	Presentation State: Purified State: Lyophilized protein Buffer System: 25 mM MES, 150 mM NaCl, pH 5.5 Stabilizer: None
Bioactivity:	Biological: Measured by its ability to inhibit the VEGF165-induced proliferation in Human Umbilical Vein Endothelial (HUVE) cells. Inhibition of VEGF165-induced proliferation of HUVECs by recombinant sVEGFR-2/KDR (Cat.-No DA3530).
Endotoxin:	< 0.1 ng per µg of sKDR
Reconstitution Method:	The lyophilized Human sKDR is soluble in water and most aqueous buffers. Restore in water or PBS to a concentration of not lower than 0.1 mg/ml.
Preparation:	Lyophilized protein



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Protein Description:	<p>Recombinant Human soluble Endothelial Growth Factor Receptor-2 (sKDR D1-7) is produced as a non-chimeric protein in a monomeric form.</p> <p>The soluble receptor protein consists of all 7 extracellular domains, which contain all the information necessary for high affinity ligand binding.</p> <p>The receptor monomers have a mass of approximately 116kDa.</p> <p><u>Result by N-terminal sequencing:</u> ASVGLPSVSL</p> <p><u>Length:</u> 738 amino acids.</p>
Storage:	<p>Store lyophilized at 2-8°C for 6 months or at -20°C long term.</p> <p>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.</p> <p>Avoid repeated freezing and thawing.</p>
Stability:	<p>Shelf life: one year from despatch.</p>
RefSeq:	<p>NP_002244</p>
Locus ID:	<p>3791</p>
UniProt ID:	<p>P35968</p>
Cytogenetics:	<p>4q12</p>
Synonyms:	<p>CD309; FLK1; VEGFR; VEGFR2</p>
Summary:	<p>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]</p>
Protein Families:	<p>Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane</p>
Protein Pathways:	<p>Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, VEGF signaling pathway</p>

Product images:

