

Product datasheet for **DA3532X**

VEGFR-1 / Flt-1 Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	VEGFR-1 / Flt-1 human recombinant protein, 20 µg
Species:	Human
Expression Host:	Insect
Expression cDNA Clone or AA Sequence:	SKLKDPESL KGTQHIMQAG QTLHLQCRGE AAHKWSLPEM VSKESERLSI TKSACGRNGK QFCSTLTLNT AQANHTGFYS CKYLAVPTSK KKETESAIYI FISDTGRPFV EMYSEIPEII HMTEGRELVI PCRVTSPNIT VTLKKFPLDT LIPDGKRIIW DSRKGFISN ATYKEIGLLT CEATVNGHLY KTNLYLTHRQT NTIIDVQIST PRPVKLLRGH TLVLNCTATT PLNTRVQMTW SYPDEKNKRA SVRRRIDQSN SHANIFYSVL TIDKMQNKDK GLYTCRVRSG PSFKSVNTSV HIYDKAFITV KHRKQQVLET VAGKRSYRLS MKVKAFPSPE VVWLKDG LPA TEKSARYLTR GYSLIKDVT EEDAGNYTIL LSIKQSNVFK NLTATLIVNV KPQIYEKAVS SFPDPALYPL GSRQILTCTA YGIPQPTIKW FWHPCNHNHS EARCDFCSNN EESFILDADS NMGNRIESIT QRMAIIEGKN KMASTLVAD SRISGIYICI ASNKVGTVGR NISFYITDVP NGFHVNLEKM PTEGEDLKLS CTVNKFLYRD VTWILLRTVN NRTMHYSISK QKMAITKEHS ITLNLTIMNV SLQDSGTYAC RARNVYTGEE ILQKKEITIR GEHCNKKAVF SRISKFKSTR NDCTTQSNVK H
Predicted MW:	96 kDa
Purity:	>95% pure by SDS-PAGE and visualised by silver stain
Buffer:	Presentation State: Purified State: Lyophilized protein Buffer System: PBS Stabilizer: None
Bioactivity:	Biological: The activity of sVEGFR-1 was determined by its ability to inhibit the VEGF-A-induced proliferation of HUVECs.
Endotoxin:	< 0.1 ng per µg of sVEGFR-1
Reconstitution Method:	Soluble in water and most aqueous buffers. The lyophilized sVEGFR-1 should be restored in PBS to a concentration not lower than 0.1 ng/ml.
Preparation:	Lyophilized protein



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Protein Description:	<p>Recombinant Human soluble Vascular Endothelial Growth Factor Receptor-1 (sVEGFR-1) is the naturally occurring form and was cloned from total RNA of Human Umbilical Vein Endothelial cells.</p> <p>The recombinant mature sVEGFR-1 is a glycosylated monomeric protein with a mass of approximately 96 kDa. The soluble receptor protein consists of the first 6 extracellular domains (Met1-His688) containing the unique 31 amino acids residues at the C-terminus.</p> <p>Result by N-terminal sequencing: SKLKD</p> <p>Length: 661 amino acids.</p> <p>mRNA RefSeq: NM_0001159920</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_001153392</p>
Locus ID:	<p>2321</p>
UniProt ID:	<p>P17948</p>
Cytogenetics:	<p>13q12.3</p>
Synonyms:	<p>FLT; FLT-1; VEGFR-1; VEGFR1</p>
Summary:	<p>This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.[provided by RefSeq, May 2009]</p>
Protein Families:	<p>Druggable Genome, Protein Kinase, Secreted Protein</p>
Protein Pathways:	<p>Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion</p>

Product images:

