

## Product datasheet for DA3541

### VEGFR-1 / Flt-1 (D1-D3) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	VEGFR-1 / Flt-1 (D1-D3) human recombinant protein, 5 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	Insect
<b>Expression cDNA Clone or AA Sequence:</b>	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 KHRKQVLET VAGKRSY
<b>Predicted MW:</b>	45 kDa
<b>Purity:</b>	>90% by SDS-PAGE and & Coomassie Stain
<b>Buffer:</b>	Presentation State: Purified State: Lyophilized protein Buffer System: PBS Stabilizer: None
<b>Bioactivity:</b>	Biological: The activity of sVEGFR-1 (D1-3) was determined by its ability to abolish the binding of iodinated VEGF to solid surfaces or cell surfaces receptors, and in Far-Western and cross-linking experiments with iodinated VEGF. Measured by its ability to inhibit the VEGF165-induced proliferation in human umbilical vein endothelial (HUVE) cells. Specific: 2.5 x 10e5 units/mg
<b>Endotoxin:</b>	< 0.1 ng per µg of VEGF.
<b>Reconstitution Method:</b>	The lyophilized sVEGFR-1D1-3 is soluble in water and most aqueous buffers and should be reconstituted in water to a concentration not lower than 0.1 mg/ml.
<b>Preparation:</b>	Lyophilized protein
<b>Protein Description:</b>	Recombinant human soluble Vascular Endothelial Growth Factor Receptor-1 domain D1-3 (sVEGFR-1D1-3) is produced as a non-chimeric protein in a monomeric form. The soluble receptor protein contains only the first 3 extracellular domains, which contain all the information necessary for binding of VEGF. The receptor monomers have a mass of approximately 45 kDa containing 327 amino acid residues.



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<b>Note:</b>	Centrifuge vials before opening!
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001153392</a>
<b>Locus ID:</b>	2321
<b>UniProt ID:</b>	<a href="#">P17948</a>
<b>Cytogenetics:</b>	13q12.3
<b>Synonyms:</b>	VEGFR1, FLT1, FLT, FRT, VEGF Receptor 1
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Secreted Protein
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion

### Product images:

