

## Product datasheet for DA3534X

### VEGFR-1 / Flt-1 (D1-7) (Fc Chimera) Human Protein

#### Product data:

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| <b>Product Type:</b>                         | Recombinant Proteins   |
| <b>Description:</b>                          | VEGFR-1 / Flt-1 (D1-7) (Fc Chimera) human recombinant protein, 50 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 KHRKQQVLET VAGKRSYRLS MKVKAFPSPE VVWLKDGLPA 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 DQEAPYLLRN LSDHTVAISS STTLDCHANG VPEPQITWFK NNHKIQQEPG IILGPGSSTL FIERVTEEDE GYVHCKATNQ KGSVESSAYL TVQGTRSDKT HTCPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SREEMTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPMLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGK |
| <b>Predicted MW:</b>                         | 130 kDa  |
| <b>Purity:</b>                               | >90% by SDS-PAGE and visualised by silver stain.   |
| <b>Buffer:</b>                               | Presentation State: Purified<br>State: Lyophilized purified protein.<br>Buffer System: PBS, pH 7.4 without stabilizers.  |
| <b>Bioactivity:</b>                          | Biological: The activity of sVEGFR-1/Fc was determined by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells.<br>The ED50 for this effect is typically 10-30 ng/ml.   |
| <b>Endotoxin:</b>                            | < 0.1 ng per ug of sVEGFR-1  |
| <b>Reconstitution Method:</b>                | Restore in water or medium to a concentration not lower than 50 µg/ml.<br>The lyophilised sVEGFR-1/Fc is soluble in water and most aqueous buffers.  |



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|-----------------------------|--|
| <b>Preparation:</b>         | Lyophilized purified protein.  |
| <b>Protein Description:</b> | Recombinant Human soluble Vascular Endothelial Growth Factor Receptor-1 (sVEGFR-1 <sub>D1-7</sub> ) was fused with the Fc part of human IgG1. The recombinant mature sVEGFR-1D1-7/Fc is a disulfide-linked homodimeric protein. The sVEGFR-1 <sub>D1-7</sub> /Fc monomers have a mass of approximately 130 kDa. The soluble receptor protein consists of all 7 extracellular domains (Met1-Thr751), which contain all the information necessary for high affinity ligand binding.  |
| <b>Storage:</b>             | Store lyophilized at 2-8°C for 6 months or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.<br>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>            | FLT; FLT-1; VEGFR-1; VEGFR1  |
| <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:

