

Datasheet for ABIN1589614

FLT1 Protein (Dimer, glycosylated, Soluble) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	FLT1
Protein Characteristics:	glycosylated, Dimer, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FLT1 protein is labelled with Fc Tag.

Product Details

Purpose:	VEGFR-1/Flt-1(D7)-Fc Chimera, soluble
Sequence:	SKLKDPELSL KGTQHIMQAG QTLHLQCRGE AAHKWSLPEM VSKESERLSI TKSACGRNGK QFCSTLTLNT AQANHTGFYS CKYLAVPTSK KKETESAIYI FISDTGRPFV EMYSEIPEII HMTEGRELVI PCRVTSPNIT VTLKKFPLDT LIPDGKRIIW DSRKGFIIISN ATYKEIGLLT CEATVNGHLY KTNYLTHRQT NTIIDVQIST PRPVKLLRGH TLVLNCTATT PLNTRVQMTW SYPDEKNKRA SVRRRIDQSN SHANIFYSVL TIDKMQNKDK GLYTCRVRSG PSFKSVNTSV HIYDKAFITV KHRKQVLET VAGKRSYRLS MKVKAFPSPE VVWLKDGLPA TEKSARYLTR GYSLIKDVT EEDAGNYTIL LSIKQSNVFK NLTATLIVNV KPQIYEKAVS SFPDPALYPL GSRQILTCTA YGIPQPTIKW FWHPCNHNHS EARCDFCSNN EESFILDADS NMGNRIESIT QRMAIIIEGKN KMASTLVVAD SRISGIYICI ASNKVGTVGR NISFYITDVP NGFHVNLEKM PTEGEDLKLS CTVNKFLYRD VTWILLRTVN NRTMHYSISK QKMAITKEHS ITLNLTIMNV SLQDSGTYAC RARNVYTGEE ILQKKEITIR DQEAPYLLRN LSDHTVAISS STTLDCHANG

Product Details

VPEPQITWFK NNHKKIQEPG IILGPGSSTL FIERVTEEDE GVVHCKATNQ KGSVESSAYL
TVQGTRSDKT HTCPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV
KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE
KTISKAKGQP REPQVYTLPP SREEMTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT
TTPMLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGK

Specificity: Chromosomal location:13q12

Characteristics: Length (aa):954

Purity: > 90 % by SDS-PAGE

Target Details

Target: FLT1

Alternative Name: VEGFR-1/Flt-1 ([FLT1 Products](#))

Background: Recombinant human soluble Vascular Endothelial Growth Factor Receptor-1 (sVEGFR-1(D7)) was fused with the Fc part of human IgG1. The recombinant mature sVEGFR-1(D7)/Fc is a disulfide-linked homodimeric protein. The sVEGFR-1(D7)/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. Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), and VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes. All VEGF-receptors have seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. VEGFR-2 has a lower affinity for VEGF than the Flt-1 receptor, but a higher signalling activity. Mitogenic activity in endothelial cells is mainly mediated by VEGFR-2 leading to their proliferation. Differential splicing of the flt-1 gene leads to the formation of a secreted, soluble variant of VEGFR-1 (sVEGFR-1). No naturally occurring, secreted forms of VEGFR-2 have so far been reported. The binding of VEGF165 to VEGFR-2 is dependent on heparin.

Synonyms: soluble vascular endothelial growth factor receptor-1, soluble FLT1, soluble VEGFR-1

Molecular Weight: 130.0 kDa

Gene ID: 2321

Target Details

NCBI Accession:	NM_001159920, NP_001153392
UniProt:	P17948
Pathways:	RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals

Application Details

Application Notes:	The activity of sVEGFR-1/Fc was determined by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells.
Comment:	Soluble Receptors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	The lyophilized sVEGFR-1/Fc should be reconstituted in water to a concentration not lower than 50 µg/mL.
Buffer:	PBS, pH 7.4
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sVEGFR-1/Fc should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles!
Expiry Date:	6 months