

Datasheet for ABIN1589551

FLT4 Protein (Dimer, glycosylated, Soluble) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	FLT4
Protein Characteristics:	glycosylated, Dimer, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FLT4 protein is labelled with Fc Tag.

Product Details

Purpose:	VEGFR-3/FLT-4/Fc Chimera, soluble
Sequence:	YSMTPTPLNI TEDSYVIDTG DSLSISCRGQ HPLEWTPGA QEVLTGGKD SEDTRVHDC EGTEARPYCK VLLLAQTHAN NTGSYHCYK YIKARIEGTT AASTYVFVRD FKHPFINKPD TLLVNRKDSM WVPCLVSIPIG LNITLRSQSS ALHPDGQEV L WDDRRGMRVP TQLLRDALYL QCETTWDGQN FLSNLFVVIH TGNELYDIQL YPKKSMELLV GEKLVLNCTV WAEFD SGVTF DWDYPGKQAE RAKWVPERRS QQTHTELSSI LTIHNSQND LGPYVCEANN GIQRFRESTE VIVHEKPFIS VEWLKGPVLE ATAGDELVKL PVKLAAYPPP EFQWYKDRKA VTGRHNPHAL VLKEVTEASA GVYTLALWNS AAGLRQNISL ELVVNVPPHI HEKEASSPSI YSRHSRQTLT CTAYGVPQPL SVQWHWRPWT PCKTFAQRSL RRRQQRDGM P QCRDWKEVTT QDAVNPIESL DSWTEFVEGK NKTVSKLVIQ DANVSAMYKC VVNVKVGQDE RLIYFYVTTI PDGFSIESEP SEDPLEGQSV RLSCRADNYT YEHLRWYRLN LSTLHDAQGN PLLLDCKNVH LFATPLEANL EEAEPGARHA TSLNIPRVA PEDEGDYVCE VQDRRSQDKH CHKKYLSVQA LEAPRLTQNL

Product Details

TDLLVNVSDS LEMRCPVAGA HVPSIVWYKD ERLLEKESGI DLADSNQRLS IQRVREEDAG
RYLCSVCNAK GCVNSSASVA VEGSEDKGSM ESDKTHTCPP CPAPELLGGP SVFLFPPKPK
DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV
LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSREEM TKNQVSLTCL
VKGFYPSDIA VEWESNGQPE NNYKTTTPML DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM
HEALHNHYTQ KSLSLSPGK

Specificity: Chromosomal location:5q35.3

Characteristics: Length (aa):979

Purity: > 90 % by SDS-PAGE

Target Details

Target: FLT4

Alternative Name: VEGFR-3/FLT-4 ([FLT4 Products](#))

Background: Recombinant human soluble Vascular Endothelial Growth Factor Receptor-3 (sVEGFR-3) was fused with the Fc part of human IgG1. The recombinant mature sVEGFR-3/Fc is a disulfide-linked homodimeric protein. The sVEGFR-3/Fc monomers have a mass of approximately 130 kDa. The soluble receptor protein consists of all 7 extracellular domains (Met1-Glu774). All three VEGF receptors belong to the class III subfamily of receptor tyrosine kinases (RTKs) characterised by the seven immunoglobulin-like loops in the extracellular domain. The expression of VEGFR-1 to -3 is almost exclusively restricted to hematopoietic precursor cells, vascular and lymphatic endothelial cells and to the monocyte/macrophage lineage. They play key roles in vasculogenesis, hematopoiesis, angiogenesis and lymphangiogenesis. The VEGFR-3/FLT-4 cDNA encodes a 1298 amino acid (aa) residue precursor protein with a 23aa residue signal peptide. Mature VEGFR-3/FLT-4 is composed of a 751aa residue extracellular domain, a 22aa transmembrane domain and a 482aa residue cytoplasmic domain. Both VEGF family members VEGF-C and VEGF-D have been shown to bind and activate VEGFR-3/FLT-4. The FLT-4 gene is widely expressed in the early embryo but becomes restricted to the lymphatic endothelial at latter stages of development. It is important for lymphangiogenesis.

Synonyms: soluble vascular endothelial growth factor receptor-3, FLT4, PCL, LMPH1A, fms-related tyrosine kinase 4

Molecular Weight: ~ 130.0 kDa

Gene ID: 2324

Target Details

NCBI Accession:	NM_002020, NP_002011
UniProt:	P35916
Pathways:	RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGF Signaling

Application Details

Application Notes:	Measured by its ability to bind recombinant rat VEGF-C in a functional solid phase binding assay. Immobilised recombinant human sVEGFR-3/Fc at 5 µg/mL can bind recombinant rat VEGF-C in a linear range of 8-500 ng/mL.
Comment:	Soluble Receptors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	The lyophilized sVEGFR-3/Fc is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 100 µg/mL.
Buffer:	PBS
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-3/Fc should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles!
Expiry Date:	6 months