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Datasheet for ABIN1589553

FLT4 Protein (glycosylated, Monomer, Soluble) (His tag)

Overview

Quantity:	5 µg
Target:	FLT4
Protein Characteristics:	glycosylated, Monomer, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FLT4 protein is labelled with His tag.

Product Details

Purpose:	VEGFR-3/FLT-4, soluble
Sequence:	DPSGYSMTPP TLNITEESHV IDTGDSLIS CRGQHLEWA WPGAQEAPAT GDKDSEDTGV VRDCEGTDAR PYCKVLLLHE VHANTGYSYV CYYKYIKARI EGTTAASSYV FVRDFEQPFI NKPDTLLVNR KDAMWVPCLV SIPGLNVTLR SQSSVLWPDG QEVVWDDRRG MLVSTPLLHD ALYLQCETTW GDQDFLSNPF LVHITGNELY DIQLLPRKSL ELLVGEKLV L NCTVWAEFNS GVTFDWDYPG KQAERGKWVP ERRSQQTHT E LSSILTIHNV SQHDLGSYVC KANNGIQRFR ESTEVIHVEN PFISVEWLKG PILEATAGDE LVKLPVKLAA YPPPEFQWYK DGKALSGRHS PHALVLKEVT EASTGTYTLA LWNSAAGLRR NISLELVNV PPQIHEKEAS SPSIYSRHSR QALTCTAYGV PLPLSIQWHW RPWTPCKMFA QRSLRRRQQQ DLMPQCRDWR AVTTQDAVNP IESLDTWTEF VEGKNKTVSK LVIQNAVSA MYKCVVSNKV GQDERLIYFY VTTIPDGFTI ESKPSEELLE GQPVLLSCQA DSYKYEHLRW YRLNLSTLHD AHGNPLLLDC KNVHLFATPL AASLEEVAPG ARHATLSLSI PRVAPEHEGH YVCEVQDRRS HDKHCHKKYL SVQALEAPRL

Product Details

TQNLTDLLVN VSDSLEMQCL VAGAHAPSIV WYKDERLLEE KSGVDLADSN QKLSIQRVRE
EDAGRYLCSV CNAKGCVNSS ASVAVEGSED KGSMEHHHHH H

Specificity: Chromosomal location:5q35.3

Characteristics: Length (aa):761

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/FLT-4) was fused with a carboxy-terminal 6X histidine-tag. The recombinant mature sVEGFR-3/FLT-4 is a glycosylated monomeric protein. The sVEGFR-3/FLT-4 monomers have a mass of approximately 120 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 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 a 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: 110 kDa

Gene ID: 2324

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. Immobilized recombinant human sVEGFR-3/FLT-4 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/FLT-4 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: 4 °C, -20 °C, -80 °C

Storage Comment: Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sVEGFR-3/FLT-4 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles!

Expiry Date: 6 months
