ACTIVE BIOSCIENCE
PROTEINS · CELLS · ANTIBODIES

Human Flt-4/Fc Chimera, sVEGFR-3 (InCs)

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

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
10 µg	1403.952.010		
50 µg	1403.952.050		

Please enquire for bulk quantities and other vial sizes

Description

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.

- **Source** Insect cells
- **Purity** ≥ 90 % (SDS-PAGE, silver stained)

Biological Activity

Measured by its ability to bind recombinant rat VEGF-C in a functional solid phase binding assay. Immobilised recombinant human sVEGFR-3/Fc at 5µg/ml can bind recombinant rat VEGF-C in a linear range of 8-500ng/ml.

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 100µg/ml.

Amino Acid Sequence

```
YSMTPPTLNI TEDSYVIDTG DSLSISCRGQ HPLEWTWPGA QEVLTTGGKD SEDTRVVHDC EGTEARPYCK
VLLLAQTHAN NTGSYHCYYK YIKARIEGTT AASTYVFVRD FKHPFINKPD TLLVNRKDSM WVPCLVSIPG
LNITLRSQSS ALHPDGQEVL WDDRRGMRVP TQLLRDALYL QCETTWGDQN FLSNLFVVHI TGNELYDIQL
YPKKSMELLV GEKLVLNCTV WAEFDSGVTF DWDYPGKQAE RAKWVPERRS QQTHTELSSI LTIHNVSQND
LGPYVCEANN GIQRFRESTE VIVHEKPFIS VEWLKGPVLE ATAGDELVKL PVKLAAYPPP EFQWYKDRKA
VTGRHNPHAL VLKEVTEASA GVYTLALWNS AAGLRQNISL ELVVNVPPHI HEKEASSPSI YSRHSRQTLT
CTAYGVPQPL SVQWHWRPWT PCKTFAQRSL RRRQQRDGMP QCRDWKEVTT QDAVNPIESL DSWTEFVEGK
NKTVSKLVIQ DANVSAMYKC VVVNKVGQDE RLIYFYVTTI PDGFSIESEP SEDPLEGQSV RLSCRADNYT
YEHLRWYRLN LSTLHDAQGN PLLLDCKNVH LFATPLEANL EEAEPGARHA TLSLNIPRVA PEDEGDYVCE
VQDRRSQDKH CHKKYLSVQA LEAPRLTQNL 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 NNYKTTPPML DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGK
```

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

ORDERING
Tel.: +49 40 43208448-0
order@active-bioscience.de
www.active-bioscience.de

TECHNICAL SUPPORT
Tel.: +49 40 43208448-11
support@active-bioscience.de

Active Bioscience GmbH
Oberaltenallee 8
D-22081 Hamburg
HRB 98170 Amtsgericht Hamburg

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

ORDERING
Tel.: +49 40 43208448-0
order@active-bioscience.de
www.active-bioscience.de

TECHNICAL SUPPORT
Tel.: +49 40 43208448-11
support@active-bioscience.de

Active Bioscience GmbH
Oberaltenallee 8
D-22081 Hamburg
HRB 98170 Amtsgericht Hamburg