

VEGFR-1/Flt-1(D7)-Fc Chimera, soluble Active Protein | VEGFR-1/Flt-1(D7) active protein

Human VEGFR-1/Flt-1(D7)-Fc Chimera, soluble

CATALOG # AAA79121	HOST Insect Cells	REACTIVITY Human
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PRODUCT SYNONYMS

VEGFR-1/Flt-1(D7)-Fc Chimera; soluble; Human VEGFR-1/Flt-1(D7)-Fc Chimera; Recombinant Human Soluble VEGFR-1D7/Fc Chimera; Fms-like tyrosine kinase 1; Vascular permeability factor receptor; VEGFR-1/Flt-1(D7) active protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Reactivity	Human
Purity/Purification	> 90% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	SKLKDPPELSL KGTQHIMQAG QTLHLQCRGE AAHKWSLPEM VSKESERLSI TKSACGRNGK QFCSTLTLTNT AQANHTGFYS CKYLAVPTSK KKETESAIYI FISDTGRPFV EMYSEIPEII HMTGRELVI PCRVTSPNIT VTLKKFPLDT LIPDGKRIIW DSRKGFIISN ATYKEIGLLT CEATVNGHLY KTNLYLTHRQT NTIIDVQIST PRPVKLLRGH TLVLNCTATT PLNTRVQMTW SYPDEKNKRA SVRRRIDQSN SHANIFYSVL TIDKMQNKDK GLYTCTRVRSR PSFKSVNTSV HIYDKAFITV KHRKQQVLET VAGKRSYRLS MKVKAFPSPE VVWLKDGSLPA TEKSARYLTR GYSLIHKDVT EEDAGNYTIL LSIKQSNVFK NLTATLIVNV KPQIYEKAVS SFPDPAALYPL GSRQILTCTA YGIPQPTIKW FWHPCNHNHS EARCDFCSNN EESFILDADS NMGNRIESIT QRMAIIEGKN KMASTLVVAD SRISGIYICI ASNKVGTVGR NISFYITDVP NGFHVNLKEM PTEGEDLKLS CTVNKFLYRD VTWILLRTVN NRTMHYSISK QKMAITKEHS ITLNLTIMNV SLQDSGTAC RARNVYTGEE ILQKKEITIR DQEAPYLLRN LSDHTVAISS STTLDCHANG VPEPQITWFK NNHKIQQEPG IILGPGSSTL FIERVTEEDE GVVHCKATNQ KGSVESSAYL TVQGTTRSDKT HTCPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SREEMTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TTPMLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGK
Sequence Length	954
Buffer	PBS
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20 degree C to -70 degree C. Reconstituted sVEGFR-1/Fc should be stored in working aliquots at -20 degree C. Avoid repeated freeze-thaw cycles!

ADDITIONAL INFORMATION

Related Product Information for VEGFR-1/Flt-1(D7) active protein	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.
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Product Categories/Family for VEGFR-1/Flt-1(D7) active protein	Soluble receptors
References	1. Barleon et al., 1997, J Biol Chem 272:10382-8 2. Röckl et al., 1998, Exp Cell Res, 241: 161-170.

NCBI AND UNIPROT INFORMATION

NCBI GI #	229892220
NCBI GeneID	2321
NCBI Accession #	NP_001153392
NCBI GenBank Nucleotide #	NM_0001159920
UniProt Accession #	P17948; O60722; A3E342; A3E344; A8KA71; B0LPF1; B2BF46; B2BF47; B2BF48; B3FR89; B5A923; F5H5L6
Molecular Weight	130 kDa (Monomer)
NCBI Official Full Name	vascular endothelial growth factor receptor 1 isoform 2
NCBI Official Synonym Full Names	fms-related tyrosine kinase 1
NCBI Official Symbol	FLT1
NCBI Official Synonym Symbols	FLT; FLT-1; VEGFR1; VEGFR-1
NCBI Protein Information	vascular endothelial growth factor receptor 1; fms-like tyrosine kinase 1; tyrosine-protein kinase FRT; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
UniProt Protein Name	Vascular endothelial growth factor receptor 1
UniProt Gene Name	FLT1
UniProt Synonym Gene Names	FLT; FRT; VEGFR1; VEGFR-1; FLT-1; FLT
UniProt Entry Name	VGFR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/insect-cells-human-active-protein/vegfr-1-flt-1-d7-fc-chimera-soluble/79121>