

VEGFR-1/Flt-1 (D5), soluble Active Protein | VEGFR-1/Flt-1 (D5) active protein

Human VEGFR-1/Flt-1 (D5), soluble

CATALOG # AAA79174	HOST Insect Cells	REACTIVITY Human
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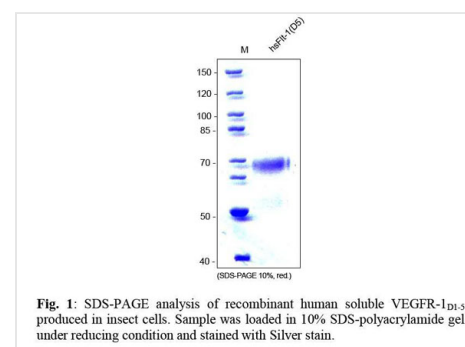
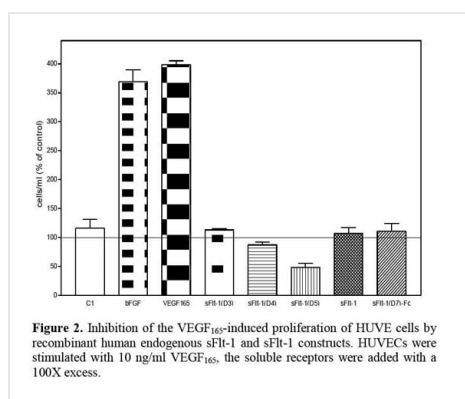
PRODUCT SYNONYMS

VEGFR-1/Flt-1 (D5); soluble; Human VEGFR-1/Flt-1 (D5); Recombinant Human Soluble VEGFR-1D1-5; Fms-like tyrosine kinase 1; Vascular permeability factor receptor; VEGFR-1/Flt-1 (D5) active protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Reactivity	Human
Purity/Purification	> 90% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence:S GSKLKD
Sequence Length	536
N Terminal Sequence	SGSKLKD
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(D5) should be stored in working aliquots at -70 degree C.

IMAGES



Application Data

Application Data

ADDITIONAL INFORMATION

Related Product Information for VEGFR-1/Flt-1 (D5) active protein	Recombinant human soluble Vascular Endothelial Growth Factor Receptor-1 domain D1-5 (sVEGFR-1(D5)) is a 70 kDa protein. The baculovirus generated, recombinant human sVEGFR-1 is produced as a non-chimeric protein in a monomeric form. The soluble receptor protein contains only the first 5 extracellular domains, which contain all the information necessary for high affinity ligand binding. The receptor monomers have a mass of approximately 70 kDa. 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), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes, dendritic cells and on trophoblast cells. The flt-1 gene was first described in 1990. The receptor contains seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. Compared to VEGFR-2 the Flt-1 receptor has a higher affinity for VEGF but a weaker signaling activity. VEGFR-1 thus leads not to proliferation of endothelial cells, but mediates signals for differentiation. Interestingly a naturally occurring soluble variant of VEGFR-1 (sVEGFR-1) was found in HUVEC supernatants in 1996, which is generated by alternative splicing of the flt-1 mRNA. The biological functions of sVEGFR-1 still are not clear, but it seems to be an endogenous regulator of angiogenesis, binding VEGF with the same affinity as the full-length receptor.
Product Categories/Family for VEGFR-1/Flt-1 (D5) 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	70 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://www.aaabiotech.com/insect-human-active-protein/vegfr-1-flt-1-d5-soluble/79174>