

VEGFR1/Flt-1 recombinant protein

Recombinant human VEGFR1/Flt-1 protein

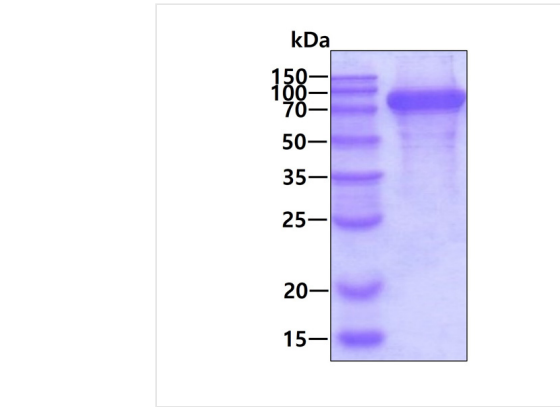
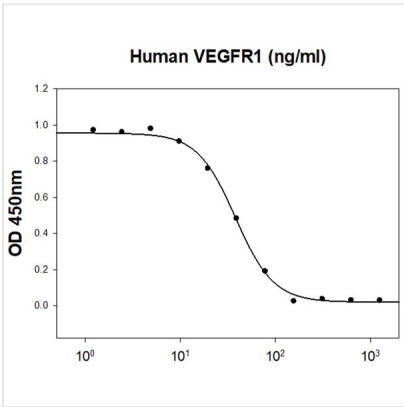
CATALOG # AAA48427	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

VEGFR1/Flt-1; Recombinant human VEGFR1/Flt-1 protein; VEGFR1; VEGF R1; VEGFR-1; Vascular endothelial growth factor receptor 1 isoform 1; Fms-like tyrosine kinase 1; FLT-1; FLT1; FLT; FRT; 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; VEGFR1/Flt-1 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	27-328aa
Sequence	SKLKDPELSL KGTQHIMQAG QTLHLQCRGE AAHKWSLPEN VSKESERLSI TKSACGRNGK QFCSTLTNT AQANHTGFYS CKYLAVPTSK KKETESAIYI FISDTGRPFV EMYSEIPEII HMTEGRELVI PCRVTSPNIT VTLKKFPLDT LIPDGKRIIW DSRKGFIISN ATYKEIGLLT CEATVNGHLY KTNLYLTHRQT NTIIDVQIST PRPVKLLRGH TLVLNCTATT PLNTRVQMTW SYPDEKNKRA SVRRRIDQSN SHANIFYSVL TIDKMQNKDK GLYTCRVRSG PSFKSVNTSV HI
Applicable Applications for VEGFR1/Flt-1 recombinant protein	Bioactivity, SDS-PAGE
Species	Human
Tag	hIgG-Tag
Predicted Nterm	Ser 27
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	Measured by its ability to inhibit proliferation using HUVEC human umbilical vein endothelial cells in the presence of Human VEGF165. The ED50 range <= 60ng/ml.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



Bioactivity

Human VEGFR1/Flt-1 inhibit proliferation of the HUVEC human umbilical vein endothelial cells in the presence of Human VEGF165. The ED50 range

SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for VEGFR1/Flt-1 recombinant protein	VEGFR1(Vascular endothelial growth factor receptor 1), also known as FLT-1(Fms-like tyrosine kinase 1), is belongs to the class III subfamily of receptor tyrosine kinases. While family members VEGFR1, VEGFR2and VEGFR3 are all mainly expressed on endothelial cells, only VEGFR1 is expressed on macrophages, and mainly plays inhibitory roles. Inhibitors of VEGFR are used in the treatment of cancer. It acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. VEGFR1 binds VEGF with higher affinity than does VEGFR2, but shows weaker kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. Recombinant human VEGFR1/Flt-1, fused to hlgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for VEGFR1/Flt-1 recombinant protein	Angiogenesis; Cardiovascular
References	Peters, K.G. et al. (1993) Proc. Natl. Acad. Sci. USA 90:8915-8919.;; Kendall R.L., et al., (1993), Natl. Acad. Sci. U.S.A. 90:10705-10709.;; Herley M.T., et al.,(1999), Biochem. Biophys. Res. Commun. 262:731-738.;; Kendall R.L., et al., (1993), Natl. Acad. Sci. U.S.A. 90:10705-10709.;;

NCBI AND UNIPROT INFORMATION

NCBI GI #	156104876
NCBI GeneID	2321
NCBI Accession #	NP_002010.2
NCBI GenBank Nucleotide #	NM_002019.4
UniProt Accession #	P17948; O60722; A3E342; A3E344; A8KA71; B0LPF1; B2BF46; B2BF47; B2BF48; B3FR89; B5A923; F5H5L6
Molecular Weight	41,175 Da
NCBI Official Full Name	vascular endothelial growth factor receptor 1 isoform 1
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

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://stage.aaabiotech.com/flt1-recombinant-protein-hek293-bioactivity-sds-page/48427>