

Datasheet for ABIN1589604

FLT1 Protein (glycosylated, Monomer, Soluble)



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Quantity:	5 μg
Target:	FLT1
Protein Characteristics:	glycosylated, Monomer, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Native
Biological Activity:	Active

Product Details	
Purpose:	VEGFR-1/Flt-1 (native), soluble
Sequence:	SKLKDPELSL KGTQHIMQAG QTLHLQCRGE AAHKWSLPEM VSKESERLSI TKSACGRNGK
	QFCSTLTLNT AQANHTGFYS CKYLAVPTSK KKETESAIYI FISDTGRPFV EMYSEIPEII
	HMTEGRELVI PCRVTSPNIT VTLKKFPLDT LIPDGKRIIW DSRKGFIISN ATYKEIGLLT
	CEATVNGHLY KTNYLTHRQT NTIIDVQIST PRPVKLLRGH TLVLNCTATT PLNTRVQMTW
	SYPDEKNKRA SVRRRIDQSN SHANIFYSVL TIDKMQNKDK GLYTCRVRSG PSFKSVNTSV
	HIYDKAFITV KHRKQQVLET VAGKRSYRLS MKVKAFPSPE VVWLKDGLPA TEKSARYLTR
	GYSLIIKDVT EEDAGNYTIL LSIKQSNVFK NLTATLIVNV KPQIYEKAVS SFPDPALYPL
	GSRQILTCTA YGIPQPTIKW FWHPCNHNHS EARCDFCSNN EESFILDADS NMGNRIESIT
	QRMAIIEGKN KMASTLVVAD SRISGIYICI ASNKVGTVGR NISFYITDVP NGFHVNLEKM
	PTEGEDLKLS CTVNKFLYRD VTWILLRTVN NRTMHYSISK QKMAITKEHS ITLNLTIMNV
	SLQDSGTYAC RARNVYTGEE ILQKKEITIR GEHCNKKAVF SRISKFKSTR NDCTTQSNVK H
Specificity:	Chromosomal location:13q12

Product Details

Pathways:

Characteristics:	Length (aa):661	
Purity:	> 95 % by SDS-PAGE	
Target Details		
Target:	FLT1	
Alternative Name:	VEGFR-1/Flt-1 (FLT1 Products)	
Background:	Recombinant human soluble Vascular Endothelial Growth Factor Receptor-1 (sVEGFR-1) is the	
	naturally occurring form and was cloned from total RNA of human umbilical vein endothelial cells. The recombinant mature sVEGFR-1 is a glycosylated monomeric protein with a mass of	
	approximately 96 kDa. The soluble receptor precursor protein consists of the first 6	
	extracellular domains (Met1-His688) containing the unique 31 amino acids residues at the C-	
	terminus. 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, 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.	
	Synonyms: soluble vascular endothelial growth factor receptor-1, soluble FLT1, soluble VEGFR-	
	1	
Molecular Weight:	96.0 kDa	
Gene ID:	2321	
NCBI Accession:	NM_001159920, NP_001153392	
UniProt:	P17948	

RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals

Application Details

Expiry Date:

6 months

Application Notes:	The activity of sVEGFR-1 was determined by its ability to inhibit the VEGF-A-induced proliferation of HUVECs.
Comment:	Soluble Receptors
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	The lyophilized sVEGFR-1 is soluble in water and most aqueous buffers. The lyophilized sVEGFR-1 should be reconstituted in PBS to a concentration not lower than 100 μ g/mL.
Buffer:	PBS
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sVEGFR-1 should be stored in working aliquots at -70°C. Avoid repeated freeze-thaw cycles!