

Active Recombinant Human FLT1 Protein (27-328aa), C-hlgG tagged

Cat. No. FLT1-133H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VEGFR1/Flt-1 (27-328aa), fused to hlgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	27-328aa
Description	This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured by its ability to inhibit proliferation using HUVEC human umbilical vein endothelial cells in the presence of Human VEGF165. The ED50 range ≤ 60 ng/mL.
Molecular Mass	60.3 kDa (535aa)
AA Sequence	SKLKDPELSLKGTQHIMQAGQTLHLQCRGEAAHKWSLPEMVSKESERLSITKSACG RNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMYS EIP EIIHMTGRELVIPCRVTSPNITVTLKKFPLDTLIPDGKRIIWDSRKGFIISNATYKEI GLLTCEATVNGHLYKTNYLTHRQNTNIIDVQISTPRPVKLLRGHTLVLNCTATTPLNTR VQMTWSYPDEKNKRASVRRRIDQSN SHANIFYSVLTIDKMQNKDGLYTCRVRSGP SFKSVNTSVHI< LEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVT CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF YPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSLSLSPGK>
Endotoxin	< 1 EU/ μ g of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

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Gene Name	FLT1 fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) [Homo sapiens (human)]
Official Symbol	FLT1
Synonyms	FLT1; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor); FLT; vascular endothelial growth factor receptor 1; VEGFR1; FLT-1; VEGFR-1; fms-like tyrosine kinase 1; tyrosine-protein kinase FRT; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor;
Gene ID	2321
mRNA Refseq	NM_002019
Protein Refseq	NP_002010
MIM	165070
UniProt ID	P17948
Biological Activity	Human VEGFR1/Flt-1 inhibit proliferation of the HUVEC human umbilical vein endothelial cells in the presence of Human VEGF165. The ED50 range ≤ 60 ng/mL.
SDS-PAGE	3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.