

## Recombinant Human FLT1 Protein, His-tagged

Cat. No. FLT1-474H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human FLT1 protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1338
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	83 kDa
<b>AA Sequence</b>	MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGQTQHIMQAGQTLHLQCRGE

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AAHKWSLPPEMVSKESEERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAV  
 PTSKKKETESAIYIFISDTGRPFVEMYSEIPEIIHMTEGRELVIPCRVTSFNITVTLKKFP  
 LDTLIPDGKRIIWDSRKGFIISNATYKEIGLLTCEATVNGHLYKTNLTHRQTNTIIDVQI  
 STPRPVKLLRGHTLVLNCTATTPLNTRVQMTWSYPDEKNKRASVRRRIDQSNSHANI  
 FYSVLTIDKMQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQQVLETVA  
 GKRSYRLSMKVKAFFPSPEVVWLKDGLPATEKSARYLTRGYSLLIKDVTEEDAGNYTIL  
 LSIKQSNVFNLTATLIVNVKPIYKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKW  
 FWHPCNHNHSEARCDFCSNNEESFILDADSNMGNRIESITQRMAIIEGKNKMASTLV  
 VADSRISGIYICIASNKVGTVGRNISFYITDVPNGFHVNLEKMPTEGEDLKLSTVNF  
 LYRDVTWILLRTVNNRTMHYSISKQKMAITKEHSITLNLTIMNVSLQDSGTYACRARN  
 VYTGEEILQKKEITIRDQEAPYLLRNLSDHTVAISSSTLTDCHANGVPEPQITWFKNNH  
 KIQQEPGII LGPSSSTLFIERVTEEDEGVYHCKATNQKGSVESSAYLTVQGTSDKSNL  
 ELITLTCTCVAATLFWLLLTLFIRKMKRSSSEIKTDYLSIIMDPDEVPLDEQCERLPYDA  
 SKWEFARERLKLKSLGRGAFGKVVQASAFGIKKSPTCRTCRTVAVKMLKEGATASEYK  
 ALMTELKILTHIGHHLNVNLLGACTKQGGPLMVIVEYCKYGNLSNYLKSQRDLFFLN  
 KDAALHMEPKKEKMEPGLEQGGKPRLDSVTSSSEFASSGFQEDKSLSDVEEEEEDS  
 DGFYKEPITMEDLISYSFQVARGMEFLSSRKCIIHRDLAARNILLSENNVMKICDFGLA  
 RDIYKNPDYVRKGDTRLPLKWMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYP  
 GVQMDDEFCSRLREGMRMRAPEYSTPEIQIMLDCWHRDPKERPRFAELVEKLG  
 LLQANVQQDGKDYIPINAILTGNSGFTYSTPAFSEDFFKESISAPKFNSGSSDDVRYV  
 NAFKFMSLERIKTFEELLPNATSMFDDYQGDSSTLLASPMLKRFTWTDSPKASLKI  
 DLRVTSKSKESGLSDVSRPSFCHSSCGHVSEGKRRFTYDHAELERKIACCSPPPDY  
 NSVVLYSTPPI

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).  
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18

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	centigrade for future use.
<b>Storage</b>	At -20 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H <sub>2</sub> O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">FLT1 fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">FLT1</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">2321</a>
<b>mRNA Refseq</b>	<a href="#">NM_001159920</a>
<b>Protein Refseq</b>	<a href="#">NP_001153392</a>

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<b>MIM</b>	165070
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<b>UniProt ID</b>	P17948
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