

Recombinant Human FLT1 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human FLT1 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1338
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	Lyophilized
Molecular Mass	83 kDa
AA Sequence	MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGQTQHIMQAGQTLHLQCRGE

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AAHKWSLPPEMVSKESERLSITKSACGRNGKQFCSTLTNTAQANHTGFYSCKYLAV
PTSKKKETESAIIYIFISDTGRPFVEMYSEIPEIIHMTEGRELVIPCRVTSPNITVTLKKFP
LDTLIPDGKRIIWDSRKGFIIISNATYKEIGLLTCEATVNGHLYKTNYLTHRQTNTIIDVQI
STPRPVKLLRGHTLVLNCTATTPLNTRVQMTWSYPDEKNKRASVRRRIDQSNSHANI
FYSVLTIDKMQNKDGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQQVLETV
GKRSYRLSMKVKAFFPSPEVVWLKDGLPATEKSARYLTRGYSIIKDVTEEDAGNYTIL
LSIKQSNVFNLTATLIVNVKPQIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKW
FWHPCNNHSEARCDFCNNNEESFILDADSNMGNRIESITQRMALIEGKNKMASTLV
VADSRISGIYICIASNKVGTVGRNISFYITDVPNGFHVNLKMPTEGEDLKLSTVNF
LYRDVTWILLRTVNNRTMHYSISKQKMAITKEHSITLNLTIMNVSLQDSGTACRARN
VYTGEEILQKKEITIRDQEAPYLLRNLSHTVAISSSTTLDCHANGVPEPQITWFKNNH
KIQQEPGII LGPSSSTLFIERVTEEDEGVYHCKATNQKGSVESSAYLTVQGTSDKSNL
ELITLTCTCVAATLFWLLLTLFIRKMKRSSSEIKTDYLSIIMDPDEVPLDEQCERLPYDA
SKWEFARERLKLKSLGRGAFGKVQASAFGIKKSPTCRTVAVKMLKEGATASEYK
ALMTELKILTHIGHHLNVNLLGACTKQGGPLMVIVEYCKYGNLSNYLKSQRDLFFLN
KDAALHMEPKKEKMEPGLEQGKKPRLDSVTSSSFSSGFQEDKSLSDVEEEEEDS
DGFYKEPITMEDLISYSFQVARGMEFLSSRKCIHRDLAARNILLSENNVMKICDFGLA
RDIYKNPDYVRKGDTRLPLKWMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYP
GVQMDDEFCSRLREGMRMRAPPEYSTPEIYQIMLDCWHRDPKERPRFAELVEKLG
LLQANVQQDGKDYIPINAILTGNSGFTYSTPAFSEDFKESISAPKFNSGSSDDVRYV
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.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ 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

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_001159920
Protein Refseq	NP_001153392

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MIM	165070
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UniProt ID	P17948
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