

Recombinant Human FLT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FLT1-5899H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FLT1 MS Standard C13 and N15-labeled recombinant protein (NP_002010) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	150.77 kDa
AA Sequence	MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGTQHIMQAGQTLHLQCRGE AAHKWSLPEMVSKESERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAV

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PTSKKKETESAIYIFISDTGRPFVEMYSEIPEIIHMTEGRELVIPCRVTSPNITVTLKKFP
 LDTLIPDGKRIIWDSRKGFIISNATYKEIGLLTCEATVNGHLYKTNYLTHRQNTNIIDVQI
 STPRPVKLLRGHTLVLNCTATTPLNTRVQMTWSYPDEKNKRASVRRRIDQSNSHANI
 FYSVLTIDKMQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQQVLETVA
 GKRSYRLSMKVKAFFPSPEVVWLKDGLPATEKSARYLTRGYSLIKDVTEEDAGNYTIL
 LSIKQSNVFNLTATLIVNVKPKIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKW
 FWHPCNHNHSEARCFCSNNEESFILDADSNMGNRIESITQRMAIIEGKNKMASTLV
 VADSRISGIYICIASNKVGTVGRNISFYITDVPNGFHVNLEKMPTEGEDLKLSTVNF
 LYRDVTWILLRTVNNRTMHYSISKQKMAITKEHSITLNLTIMNVSLQDSGTACRARN
 VYTGEEILQKKEITIRDQEAPYLLRNLSDHTVAISSSTLTDCHANGVPEPQITWFKNNH
 KIQQEPGIILGPGSSTLFIERVTEEDEGVYHCKATNQKGSVESSAYLTVQGTSDKSNL
 ELITLTCTCVAATLFWLLLTLFIRKMKRSSEIKTDYLSIIMDPDEVPLDEQCERLPYDA
 SKWEFARERLKLKSLGRGAFGKVVQASAFGIKKSPTCRTCRTVAVKMLKEGATASEYK
 ALMTELKILTHIGHHLNVNLLGACTKQGGPLMVIVEYCKYGNLSNYLKSQRDLFFLN
 KDAALHMEPKKEKMEPGLEQGKKPRLDSVTSSSEFASSGFQEDKSLSDVEEEEEDS
 DGFYKEPITMEDLISYSFQVARGMEFLSSRKCIIHRDLAARNILLSENNVMKICDFGLA
 RDIYKNPDYVRKGDTRLPLKWMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYP
 GVQMDDEFCSRLREGMRMRAPEYSTPEIQIMLDCWHRDPKERPRFAELVEKLG
 LLQANVQQDGKDYIPINAILTGNSGFTYSTPAFSEDFFKESISAPKFNSGSSDDVRYV
 NAFKFMSLERIKTFEELLPNATSMFDDYQGDSSTLLASPMLKRFTWTDSKPKASLKI
 DLRVTSKSKESGLSDVSRPSFCHSSCGHVSEGKRRFTYDHAELERKIACCSPPPDY
 NSVVLYSTPPITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

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Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [FLT1 fms related receptor tyrosine kinase 1 \[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](#)

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SDS-PAGE



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