

Product datasheet for TP324406

VEGF Receptor 1 (FLT1) (NM_002019) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) (FLT1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC224406 representing NM_002019 Red=Cloning site Green=Tags(s)

MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGQTQHIMQAGQTLHLQCRGEEAAHKWSLPEMVSKE
SERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMYS
EIEPIIHMTEGRELVIPCRVTSPNITVTLKKFPLDPLIDGKRIIWDNRKGFISNATYKEIGLLTCEAT
VNGHLYKTNLTHRQNTIIVQISTPRPVKLLRGHTLVLNCTATTPLNTRVQMTWSYPDEKNKRASVRR
RIDQSNSHANIFYSVLTIDKMQNKDGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQQVLETVAGK
RSYRLSMKVKAFFSPEVWVWLDGLPATEKSARYLTRGYSLLIKDVTEEDAGNYTILLSIKQSNVFNKLT
TLIVNVKPKIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFWHPCNHNHSEARCDFCSNNEESF
ILDADSNMGNRIESITQRMAIIEGKNKMASTLVADSRISGIYICIASNKVGTVGRNISFYITDVPNGFH
VNLEKMPTEGEDLKLSTVNKFLYRDVTWILLRTVNNRMTMHSISKQKMAITKEHSITLNLTIMNVSLQD
SGTYACRARNVYTGEEILQKKEITIRDQEAPYLLRNLSDHTVAISSSTLLDCHANGVPEPQITWFKNNHK
IQQEPGIIILGPGSSTLFIERVTEEDGVYHCKATNQKGSVESSAYLTVQGTSDKSNLELITLTCTCVAAT
LFWLLTLFIRKMKRSSEIKTDYLSIIMDPDEVPLDEQCERLPYDASKWEFARERLKLKSLGRGAFGK
VVQASAFGIKKSPTCRTVAVKMLKEGATASEYKALMTELKILTHIGHHLNVNLLGACTKQGGPLMVIVE
YCKYGNLSNYLKSRLDFFLNKDAALHMEPKKEKMEPGLEQGKKPRLDSVTSSESFASSGFQEDKSLSDV
EEEESDGFYKEPITMEDLISYSFQVARGMEFLSSRKCIIHRDLAARNILLSENNVMKICDFGLARDIYKN
PDYVRKGDTRLPLKWMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYGPVQMDDEFCSRLREGMRMR
APEYSTPEIYQIMLDCWHRDPKERPRFAELVEKLGDLLQANVQDGDYIPINAILTGNSGFTYSTPAFS
EDFFKESISAPKFNSSGSSDDVRYVNAFKFMSLERIKTFEELLPNATSMFDDYQGDSSLLASPMLKRFTW
TDSKPKASLKIDLRVTSKSKESGLSDVSRPSFCHSSCGHVSEGKRRFTYDHAELERKIACCSPPPDYNV
VLYSTPPI

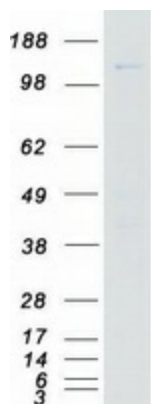
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	148 kDa



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002010
Locus ID:	2321
UniProt ID:	P17948 , L7RSL3
RefSeq Size:	5777
Cytogenetics:	13q12.3
RefSeq ORF:	4014
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Summary:	<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.[provided by RefSeq, May 2009]</p>
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion

Product images:

Coomassie blue staining of purified FLT1 protein (Cat# TP324406). The protein was produced from HEK293T cells transfected with FLT1 cDNA clone (Cat# [RC224406]) using MegaTran 2.0 (Cat# [TT210002]).