

Product datasheet for TP311459L

FLT3 (NM_004119) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human fms-related tyrosine kinase 3 (FLT3), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211459 representing NM_004119 Red =Cloning site Green =Tags(s)

MPALARGGGQLPLLWFSAMIFGTITNQDLPVIKCVLINHKNNDSSVGKSSSYPMVSESPEDLGCALRPQ
SSGTVYEA-AAVEVDVSASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTETQAGE
YLLFIQSEATNYTILFTVSIRNTLLYLRRPYFRKMENQDALVCISESVPEPIVWVLCDSQGESCKEES
PAVVKKEEKVLHELFGMDIRCCARNELGRECTRLFTIDLNQTPQTTLPLQFLKVGEPWIRCKAVHVNHG
FGLTWELNKALEEGNYFEMSTYSTNRTMIRILFAFVSSVARNDTGYYTCSSSKHPSQSALVTIVEKGF
NATNSSEDEYIDQYEEFCFSVRFKAYPQIRCTWTFSRKSFPCQKGLDNGYSISKFCNHHKHPGEYIFHA
ENDDAQFTKMFTLNIRRKPVLAEASASQACFSFDGYPLPSWTWKKCSDKSPNCTEEITEGVWNRKANRK
VFGQWVSSSTLNMSEAIKGLVKCCAYNSLGTSCETILLNSPGPFPIQDNISFYATIGVCLLFIIVLTL
LICHKYKKQFRYESQLQMVQVTGSSDNEYFYVDFREYEDLKWEPRENLEFGKVLGSGAFGKVMNATAY
GISKTGVSIQVAVKMLKEKADSSEREALMSELKMMTQLGSHENIVNLLGACTLSGPIYLIFEYCCYGDLL
NYLRSKREKFHRTWTEIFKEHNFSFYPTFQSHPNSSMPGSREVQIHPDSDQISGLHGNSFHSEDEIEYEN
QKRLEEEEDLNVLTFEDLLCFAYQVAKGMEFLEFKSCVHRDLAARNVLVTHGKWKICDFGLARDIMSDS
NYVVRGNARLPVKWMAPESLFEGIYTIKSDVWSYGILLWEIFSLGVNPPYGPVVDANFYKLIQNGFKMDQ
PFYATEEIIIMQSCWAFDSRKRPSFPNLTSFLGCQLADAEAMYQNVDGRVSECPHTYQNRPPFSREMD
LGLLSPQAQVEDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

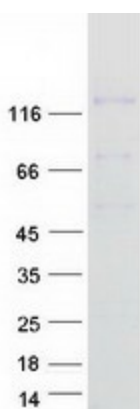
Tag:	C-Myc/DDK
Predicted MW:	112.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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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_004110
Locus ID:	2322
UniProt ID:	P36888
RefSeq Size:	3475
Cytogenetics:	13q12.2
RefSeq ORF:	2979
Synonyms:	CD135; FLK-2; FLK2; STK1
Summary:	This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. This receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia. [provided by RefSeq, Jan 2015]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways:	Acute myeloid leukemia, Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Pathways in cancer

Product images:



Coomassie blue staining of purified FLT3 protein (Cat# [TP311459]). The protein was produced from HEK293T cells transfected with FLT3 cDNA clone (Cat# [RC211459]) using MegaTran 2.0 (Cat# [TT210002]).