

Product datasheet for **TP311459M**

FLT3 (NM_004119) Human Recombinant Protein

Product data:

| | |
|--|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human fms-related tyrosine kinase 3 (FLT3), 100 µg |
| 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
NATNSSDYEIDQYEEFCFSVRFKAYPQIRCTWTFSRKSFPCQKGLDNGYSISKFCNHHKHPGEYIFHA
ENDDAQFTKMFTLNIRRKPVLAEASASQACFSFDGYPLPSWTWKKCSDKSPNCTEEITEGVWNRKANRK
VFGQWVSSSTLNMSEAIKGLVKCCAYNSLGTSCETILLNSPGPFPIQDNISFYATIGVCLLFIIVLTL
LICHKYKKQFRYESQLQMVQVTGSSDNEYFYVDFREYEDLKWEPRENLEFGKVLGSGAFGKVMNATAY
GISKTGVSIVAVKMLKEKADSSEREALMSELKMMTQLGSHENIVNLLGACTLSGPIYLIFEYCCYGDLL
NYLRSKREKFHRTWTEIFKEHNFSFYPTFQSHPNSSMPGSREVQIHPDSDQISGLHGNSFHSEDEIEYEN
QKRLEEEEDLNVLTFEDLLCFAYQVAKGMEFLEFKSCVHRDLAARNVLVTHGKWKICDFGLARDIMSDS
NYVVRGNARLPVKWMAPESLFEGIYTIKSDVWSYGILLWEIFSLGVNPPYGPVVDANFYKLIQNGFKMDQ
PFYATEEIIIMQSCWAFDSRKRPSFPNLTSFLGCLADAEAMYQNVDRVSECPHTYQNRPPFSREMD
LGLLSPQAQVEDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

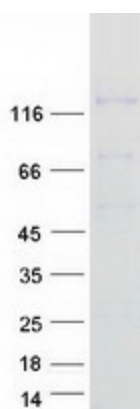
| | |
|-----------------------|---|
| Tag: | C-Myc/DDK |
| Predicted MW: | 112.7 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |



[View online »](#)

| | |
|--------------------------|---|
| 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]).