

## Product datasheet for PH311459

### FLT3 (NM\_004119) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	FLT3 MS Standard C13 and N15-labeled recombinant protein (NP_004110)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211459
Predicted MW:	112.7 kDa
Protein Sequence:	>RC211459 representing NM_004119 Red=Cloning site Green=Tags(s)

MPALARGGGQLPLLVFSAMIFGTITNQDLPVIKCVLINHKNNDSVVGKSSSYPMVSESPEDLGCALRPQ  
SSGTVYEAAAVEVDVSASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTETQAGE  
YLLFIQSEATNYILFTVSIRNTLLYTLRRPYFRKMENQDALVCISESVPPIVEVWLCDQSGESCKEES  
PAVVKKEEKVLELHFGMDIRCCARNELGRECTRLFTIDLNQTPQTLPQLFLKVGPELWIRKAVHVNHG  
FGLTWELNKALEEGNYFEMSTYSTNRTMIRILFAVSSVARNDTGYYTCSKHPQSALVTIVEKGF  
NATNSSEIDYEQYEEFCFSVRFKAYPQIRCTWTFSRKSFPCQKGLDNGYSISKFCNHKHQPGEYIFHA  
ENDDAQFTKMFTLNIRRKQVLAEASASQASCFSDGYPLPSWTWKKCSKSPNCTEEITEGVWNRKANRK  
VFGQWVSSSTLNMSEAIKGLVKCCAYNSLGTSCETILLNSPGPFPIQDNISFYATIGVCLLFIVVLT  
LICHKYKQFRYEQQLQMVQVTGSSDNEYFYVDFREYEDLKWEFPRENLEFGKVLGSGAFGKVMNATAY  
GISKTGVS IQVAVKMLKEKADSSEREALMSELKMMTQLGSHENIVNLLGACTLSGPIYLI FEYCCYGDLL  
NYLRSKREKFHRTWTEIFKEHNSFYPTFQSHPNSSMPGSREVQIHPDSDQISGLHGNSFHSEDEIEYEN  
QKRLEEEEDLNVLTFEDLLCFAYQVAKGMEFLEFKSCVHRDLAARNVLVTHGKVVKICDFGLARDIMSDS  
NYVVRGNARLPVKWMAPESLFEGIYTIKSDVWSYGILLWEIFSLGVNPPYGPVVDANFYKLIQNGFKMDQ  
PFYATEEIIYIMQSCWAFDSRKRPSFNLTSFLGCQLADAEAMYQNVDGRVSECPHTYQNRPPFSREMD  
LGLLSPQAQVEDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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

**RefSeq:** [NP\\_004110](#)

**RefSeq Size:** 3475

**RefSeq ORF:** 2979

**Synonyms:** CD135; FLK-2; FLK2; STK1

**Locus ID:** 2322

**UniProt ID:** [P36888](#)

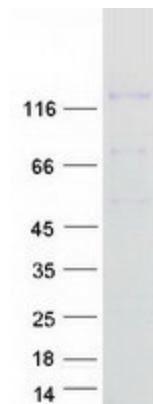
**Cytogenetics:** 13q12.2

**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]).