

FLT3 recombinant protein

Recombinant FLT3 (571-993) protein

CATALOG #
AAA60251

HOST
Baculovirus

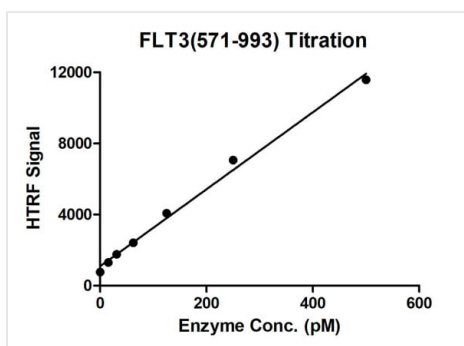
PRODUCT SYNONYMS

FLT3; Recombinant FLT3 (571-993) protein; Fms Related Receptor Tyrosine Kinase 3; FLT3 recombinant protein

PRODUCT SPECIFICATIONS

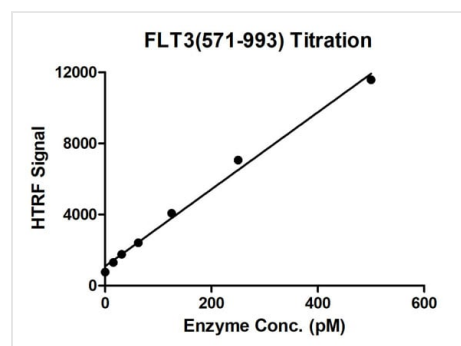
Host	Baculovirus
Form/Format	Recombinant FLT3 (571-993) protein is supplied in 25mM HEPESNaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant FLT3 (571-993) protein that includes amino acids 571-993 of human FLT3 protein (accession number NP_004110.2) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



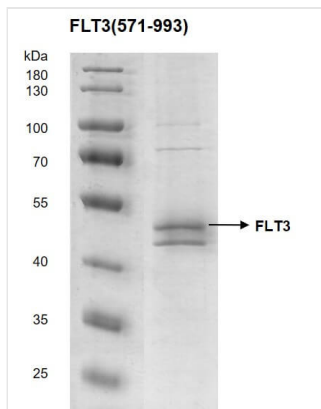
Application Data

HTRF assay for FLT3 (571-993) activity 1 μ M TK substrate was incubated with different concentrations of FLT3 (571-993) protein in a 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1mM MnCl₂, 1 mM DTT and 100 μ M ATP for 1 hour. Then 10 μ l detection reagents containing TK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant FLT3 (571-993) protein 10% SDS-PAGE with Coomassie staining MW: 49.7 kDa
Purity: >50%

ADDITIONAL INFORMATION

Related Product Information for FLT3 recombinant protein	Background: FLT3 (Fms Related Receptor Tyrosine Kinase 3) is a cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. 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. FLT3 promotes phosphorylation of SHC1 and AKT1, and activates the downstream effector MTOR and promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1. Diseases associated with FLT3 include Leukemia, Acute Myeloid and Acute Myeloblastic Leukemia Without Maturation.
Product Categories/Family for FLT3 recombinant protein	Recombinant Proteins; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	121114304
NCBI GeneID	2322
NCBI Accession #	NP_004110.2
NCBI GenBank Nucleotide #	NM_004119.2
UniProt Accession #	P36888 ; Q13414 ; A0AVG9 ; B7ZLT7 ; B7ZLT8 ; F5H0A0
Molecular Weight	112,903 Da
NCBI Official Full Name	receptor-type tyrosine-protein kinase FLT3
NCBI Official Synonym Full Names	fms-related tyrosine kinase 3
NCBI Official Symbol	FLT3
NCBI Official Synonym Symbols	FLK2; STK1; CD135; FLK-2
NCBI Protein Information	receptor-type tyrosine-protein kinase FLT3; STK-1; CD135 antigen; FL cytokine receptor; fetal liver kinase 2; fms-like tyrosine kinase 3; stem cell tyrosine kinase 1; growth factor receptor tyrosine kinase type III
UniProt Protein Name	Receptor-type tyrosine-protein kinase FLT3
UniProt Gene Name	FLT3
UniProt Synonym Gene Names	CD135; FLK2; STK1; FLK-2; FLT-3; STK-1
UniProt Entry Name	FLT3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/flt3-recombinant-protein-baculovirus/60251>