

HuPro®

FLT3 (Human) Recombinant Protein

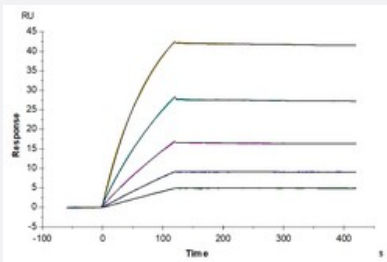
Catalog # P9784

Size 100 ug

Applications

Enzyme-linked Immunoabsorbent Assay

Immobilized Human FLT3 Ligand, His Tag at 1 ug/mL (100 uL/Well) on the plate. Dose response curve for Human FLT3, hFc Tag with the EC50 of 13.4 ng/mL determined by ELISA (QC Test).



Surface Plasmon Resonance

Mouse FLT3 Ligand, His Tag captured on CM5 Chip via anti-his antibody can bind Human FLT3, hFc Tag with an affinity constant of 0.18 nM as determined in SPR assay (Biacore T200).

Tris-Bis PAGE

Human FLT3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description

Human FLT3 (P36888-1, Asn27-Asn541) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.

Sequence	Asn27-Asn541
Host	Human
Theoretical MW (kDa)	84.90000000000001
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Quality Control Testing	Tris-Bis PAGE Tris-Bis PAGE Human FLT3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SPR SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human FLT3 Ligand, His Tag at 1 ug/mL (100 uL/Well) on the plate. Dose response curve for Human FLT3, hFc Tag with the EC50 of 13.4 ng/mL determined by ELISA (QC Test).

- Functional Study

- Surface Plasmon Resonance

Mouse FLT3 Ligand, His Tag captured on CM5 Chip via anti-his antibody can bind Human FLT3, hFc Tag with an affinity constant of 0.18 nM as determined in SPR assay (Biacore T200).

Gene Info — FLT3

Entrez GeneID [2322](#)

Protein Accession# [P36888-1](#)

Gene Name	FLT3
Gene Alias	CD135, FLK2, STK1
Gene Description	fms-related tyrosine kinase 3
Omim ID	136351 601626
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. The receptor consists of an extracellular domain composed of five immunoglobulin-like domains, one transmembrane region, and a cytoplasmic kinase domain split into two parts by a kinase-insert domain. The 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]
Other Designations	CD135 antigen FL cytokine receptor FLT3 receptor tyrosine kinase OTTHUMP00000042340 fetal liver kinase 2 growth factor receptor tyrosine kinase type III stem cell tyrosine kinase 1 tyrosine-protein kinase receptor FLT3

Pathway

- [Acute myeloid leukemia](#)
- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Pathways in cancer](#)

Disease

- [Acute Disease](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Chromosome Aberrations](#)
- [Diabetes Mellitus](#)

- [Disease Progression](#)
- [Down Syndrome](#)
- [Edema](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Leukocytosis](#)
- [Lymphoproliferative Disorders](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasm](#)
- [Neovascularization](#)
- [Noonan Syndrome](#)
- [Osteoporosis](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Recurrence](#)
- [Tobacco Use Disorder](#)
- [Translocation](#)