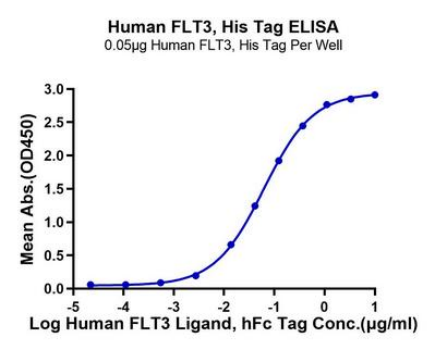
Bioactive CellTx™ HuPro®

FLT3 (Human) Recombinant Protein

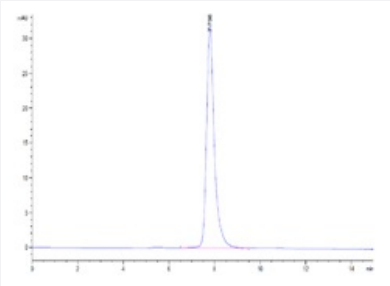
Catalog # P9704 Size 100 ug

Applications



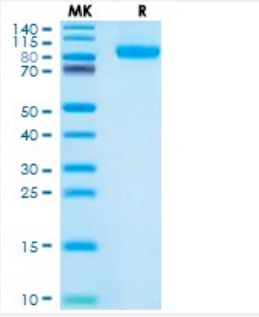
Enzyme-linked Immunoabsorbent Assay

Immobilized Human FLT3, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Human FLT3 Ligand, hFc Tag with the EC50 of 35.6 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human FLT3 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

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

Specification

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Product Description	Human FLT3 (P36888-1, 27 a.a. - 541 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	NQDLPVIKCVLINHKNNDSSVGKSSSYPMVSESPEDLGCALRPQSSGTVYEAAAVEVDVSASITL QVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTETQAGEYLLFIQSEATNYTILFTV SIRNTLLYTLRRPYFRKMENQDALVCISESVPEPIVEWVLCDSQGESCKEESPAVVKKEEKVLHE LFGTDIRCCARNELGRECTRLFTIDLNQTPQTTLPQLFLKVGEPLWIRCKAVHVNHGFGLTWELEN KALEEGNYFEMSTYSTNRTMIRILFAFVSSVARNDTGYYTCSSSKHPSQSALVTIVEKGFINATNSS EDYEIDQYEEFCFSVRFKAYPQIRCTWTFSRKSFPCEQKGLDNGYSISKFCNHKHQPGEYIFHAEN DDAQFTKMFTLNIRRKPQVLAEASASQASCFSDGYPLPSWTWKKCSDKSPNCTEEITEGVWNR KANRKVFGQWVSSSTLNMSEAIKGFLVKCCAYNSLGTSCETILLNSPGPFPFIQDN
Host	Human
Theoretical MW (kDa)	59.22
Form	Liquid
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 35.6 ng/mL, messured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human FLT3 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human FLT3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4
Storage Instruction	Store at -80°C for 12 Month. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study

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- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human FLT3, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Human FLT3 Ligand, hFc Tag with the EC50 of 35.6 ng/mL determined by ELISA.

- SDS-PAGE

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

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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

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