

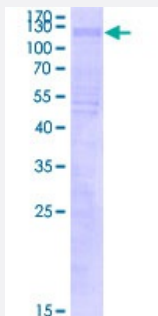
Full-Length

FLT1 (Human) Recombinant Protein (P02)

Catalog # H00002321-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FLT1 full-length ORF (AAH39007.1, 1 a.a. - 687 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGQTQHIMQAGQTLHLQCRGEAAHKWSLP
EMVSKESERLSITKSACGRNGKQFCSTLTNTAQANHTGFYSCKYLAVPTSKKKETESAMFISDT
GRPFVEMYSEIPEIIHMTGRELVIPCRVTSPNITVTLKKFPLDTLIPDGKRIWDSRKGFIISNATYKEI
GLLTCEATVNGHLYKTNLYTHRQNTIIDVQISTPRPVKLLRGHTLVLNCTATTPLNTRVQMTWSYPD
EKNKRASVRRRIDQSNSHANIFYSVLTIDKMQNKDGLYTCRVRSGPSFKSVNTSVHIYDKAFITVK
HRKQQVLETVAGKRSYRLSMKVKAFFPSPEVVWLKDGLPATEKSARYLTRGYSLIKDVTEEDAGN
YTILLSIKQSNVFNLTATLIVNVKPQIYKAVSSFPDPALYPLGSRQILCTAYGIPQPTIKWFWHPC
NHNHSEARCDFCSNNEESFILDADSNMGNRIESITQRMAIEGKNKMASTLVVADSRISGMCIASNK
VGTVGRNISFYITDVPNGFHVNLEKMPTEGEDLKLSTVKNFLYRDVTWILLRTVNNRTMHYSISKQ
KMAITKEHSITLNLTIMNVSLQDSGTACRARNVYTGEIILQKKEITIRGEHCNKKAVFSRISKFKSTR
NDCTTQSNVKH

Theoretical MW (kDa)

101.31

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FLT1

Entrez GeneID[2321](#)**GeneBank Accession#**[BC039007.1](#)**Protein Accession#**[AAH39007.1](#)**Gene Name**

FLT1

Gene Alias

FLT, VEGFR1

Gene Description

fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)

Omim ID[165070](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia

Other Designations

fms-related tyrosine kinase 1|soluble VEGF receptor 1-14|soluble VEGFR1 variant 2|soluble VEGFR1 variant 21|vascular endothelial growth factor/vascular permeability factor receptor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Focal adhesion](#)

Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Chorioamnionitis](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Fetal Growth Retardation](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hypersensitivity](#)

- [Inflammation](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Malaria](#)
- [Melanoma](#)
- [Neovascularization](#)
- [Obstetric Labor](#)
- [Placenta Diseases](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Sarcoidosis](#)
- [Scleroderma](#)
- [Skin Neoplasms](#)
- [Vaginitis](#)