

Recombinant Human Fms-Related Tyrosine Kinase 4

Cat. No. FLT4-1698H Lot. No. (See product label)

SPECIFICATION

Species Human

Source Mammalian Cells

Description Vascular endothelial growth factor receptor 3 (VEGF R3) is one of the five receptor tyrosine kinases whose expression is almost exclusively restricted to endothelial cells of the lymphatic system. VEGF R3 is a specific marker for lymphatic vessels. It has also been detected on some high endothelial venules, in embryonic prelymphatic blood vessels, in some tumor blood vessels, and in certain hematopoietic and leukemia cells. The predominant role of VEGF-R3 is its involvement in the development of the lymphatic vessel system.

State Of Matter Lyophilized.

Purity >95% by SDS Page and analyzed by silver stain.

Endotoxin <0.1 ng per 1 g as determined by the LAL method.

Molecular Weight The predicted molecular weight of Recombinant Human VEGF R3 is Mr 112 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 160 kDa.

Biological Activity The biological activity of Human VEGF R3 was determined by its binding ability in a functional ELISA. Immobilized VEGFR3/Fc Chimera at 5 µg/ml (100 µl/well) can bind rhVEGF₁₂₁ at a linear range of 4-500 ng/ml.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION
Gene Name

[FLT4 fms-related tyrosine kinase 4 \[Homo sapiens \]](#)

Synonyms

FLT4; fms-related tyrosine kinase 4; PCL; FLT41; LMPH1A; VEGFR3; FLT4; VEGFR-3; fms-related tyrosine kinase 4; soluble VEGFR3 variant 1; soluble VEGFR3 variant 2; soluble VEGFR3 variant 3; vascular endothelial growth factor receptor 3; Tyrosine-protein kinase receptor FLT4; 3` partial; EC 2.7.10.1

Gene ID

[2324](#)

mRNA Refseq

[NM_002020](#)

Protein Refseq

[NP_002011](#)

MIM

[136352](#)

UniProt ID

[P35916](#)

Chromosome Location

5q35.3

Function

ATP binding; nucleotide binding; protein binding; receptor activity; transferase activity; vascular endothelial growth factor receptor activity

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