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Flt4
Recombinant Mouse VEGFR-3 / FLT-4 (His Tag)

Catalog No.	CRM652A-His CRM652B-His	**Quantity:**	50 µg 100 µg

Alternate Names: Vascular endothelial growth factor receptor 3, VEGFR-3, Fms-like tyrosine kinase 4, FLT -4, Tyrosine-protein kinase receptor FLT4

Description: Vascular endothelial growth factor receptor 3 (VEGFR-3) together with the other two members VEGFR1 (FLT-1) and VEGFR2 (KDR/Flk-1) are receptors for vascular endothelial growth factors (VEGF) and belong to the class III subfamily of receptor tyrosine kinases (RTKs). The VEGFR-3 protein is expressed mainly on lymphatic vessels but it is also up-regulated in tumor angiogenesis. Mutations in VEGFR-3 have been identified in patients with primary lymphoedema. The VEGF-C/VEGF-D/VEGFR-3 signaling pathway may provide a target for anti-lymphangiogenic therapy in prostate cancer, breast cancer, gastric cancer, lung cancer, non-small cell lung cancer (NSCLC).

UniProt ID: P35917-1

Protein Construction: A DNA sequence encoding the mouse FLT4 extracellular domain (Met 1-Glu 775) was expressed, with a polyhistidine tag at the C-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The secreted rmVEGFR-3 consists of 762 aa with a predicted MW of 86.4 kDa and migrates at ~95-105 kDa in non-reduced SDS-PAGE, due to glycosylation.

Purity: > 97 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: In a functional ELISA, immobilized mouse VEGFR3-His at 10 µg/mL (100 µl/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 44 ng/mL

Predicted N-terminal: Tyr 25

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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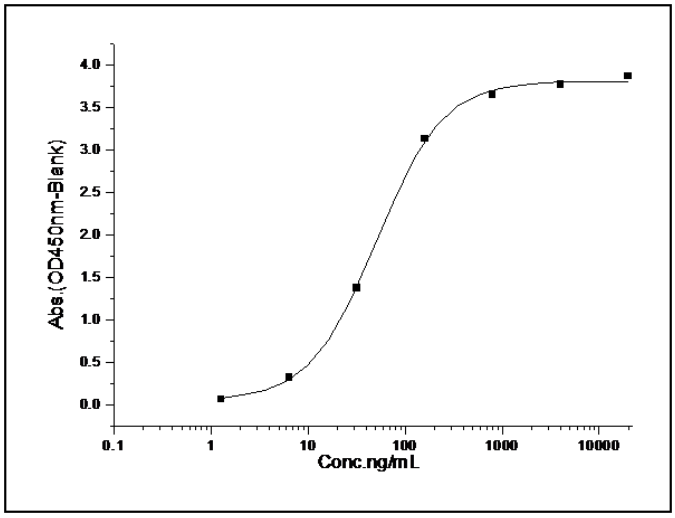
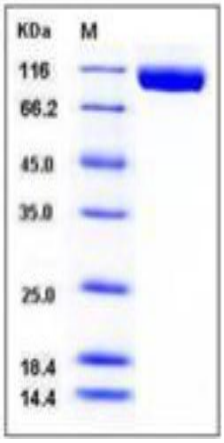
Measured by its binding ability in a functional ELISA. Immobilized mouse VEGFR3-His at 10 µg/mL (100 µl/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 44 ng/mL.



SDS-PAGE



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