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

Catalog No.	CRM652A-Fc CRM652B-Fc	**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/VEGFR3 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 was fused with the Fc region of human IgG1 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 rmFLT4/Fc is a disulfide-linked homodimer. The reduced monomer consists of 992 aa with a predicted MW of 112 kDa. As a result of glycosylation and proteolytic cleavage, rm FLT4/Fc monomer migrates as three bands (150, 85, 65 kDa) corresponding to the full length and the cleaved two polypeptides respectively in SDS-PAGE under reducing conditions.

Purity: > 92 % as determined by SDS-PAGE.

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

Biological Activity: 1. In functional ELISA, immobilized human VEGF-C at 10 µg/mL (100 µL/well) can bind mouse VEGFR3-Fc. The EC50 of mouse VEGFR3-Fc is 0.008 µg/mL.
2. Measured by its ability to bind with mouse FIGF-His in a functional ELISA.

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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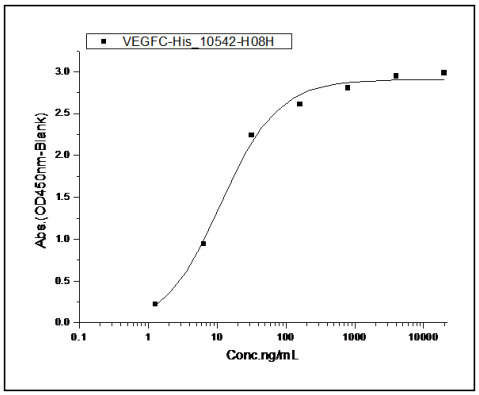
Immobilized human VEGF-C at 10 µg/mL (100 µL/well) can bind mouse VEGFR3-Fc. The EC50 of mouse VEGFR3-Fc is 0.008 µg/mL.



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