

FLT4

Recombinant Human VEGFR-3 / FLT-4 (His Tag)

Catalog No.	CRH563A-His CRH563B-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), also known as FLT-4, together with the other two members VEGFR-1 (FLT-1) and VEGFR-2 (KDR/Flik-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 antilymphangiogenic therapy in prostate cancer, breast cancer, gastric cancer, lung cancer, non-small cell lung cancer (NSCLC), and so on.		
UniProt ID:	P35916		
Accession Number:	NP_002011.2		
Protein Construction:	A DNA sequence encoding the extracellular domain (Met 1-Ile 776) of human VEGFR3 was expressed with a C-terminal polyhistidine tag.		
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 rhVEGFR-3 consists of 763 amino acids and predicts a molecular mass of 86 kDa. As a result of glycosylation, rhVEGFR3 migrates at ~130 kDa in non-reduced SDS-PAGE.		
Purity:	> 97 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Measured by its binding ability in a functional ELISA, immobilized human VEGF-C at 10 µg/mL (100 µl/well) can bind human VEGFR3-his. The EC50 of human VEGFR3-his is 0.011 µg/mL.		
Predicted N-terminal:	Tyr 27 & Ser 473		
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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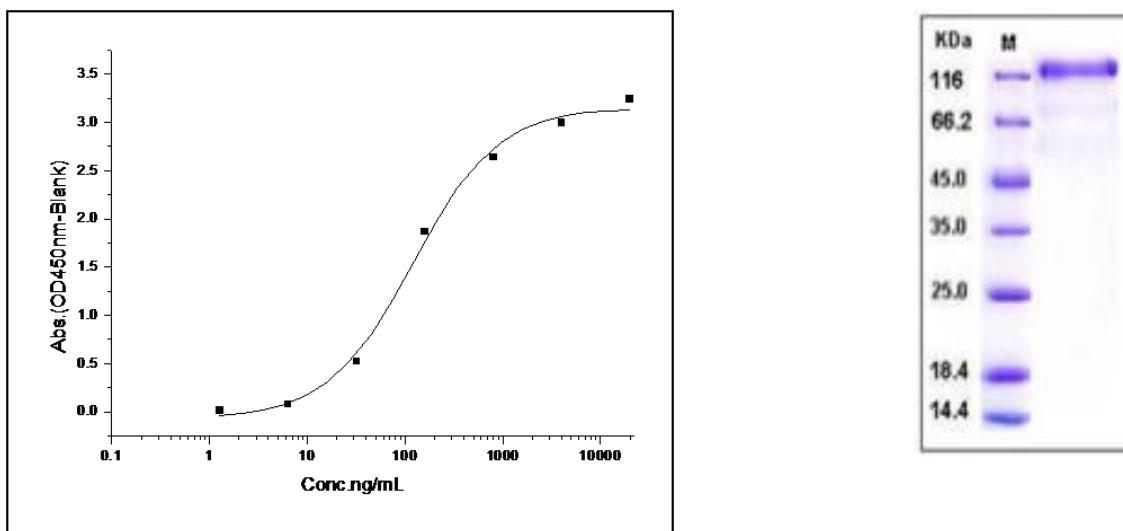
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Measured by its binding ability in a functional ELISA.
Immobilized human VEGF-C at 10 μ g/mL (100 μ L/well)
can bind human VEGFR3-his. The EC50 of human
VEGFR3-his is 0.011 μ g/mL.

SDS-PAGE



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