

Recombinant Human VEGFR3/FLT4 Protein (Fc Tag)

Catalog Number:PKSH031420



Note: Centrifuge before opening to ensure complete recovery of vial contents.

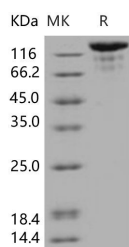
Description

Synonyms	FLT-4;FLT-41;FLT41;LMPH1A;PCL;VEGF Receptor 3;VEGFR-3;VEGFR3
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Ile 776
Accession	NP_002011.2
Calculated Molecular Weight	111 kDa
Observed molecular weight	160&85&75 kDa
Tag	C-hFc
Bioactivity	<ol style="list-style-type: none">1. Immobilized recombinant human VEGFR3 at 5 µg/ml (100 µl/well) can bind recombinant human VEGF-D at a linear range of 62. 5-2000 ng/ml.2. Immobilized recombinant human VEGF-C at 10 µg/ml (100 µl/well) can bind recombinant human VEGFR3 at a linear range of 0.64-80 ng/ml.3. Scatchard analysis showed the affinity constant (Kd) of recombinant human VEGF-C bound to recombinant human VEGFR3 was 1. 4 nM.

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Vascular endothelial growth factor receptor 3 (VEGFR3), also known as FLT-4, together with the other two members VEGFR1 (FLT-1) and VEGFR2 (KDR/Fik-1) are receptors for vascular endothelial growth factors (VEGF) and belong to

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the class III subfamily of receptor tyrosine kinases (RTKs). The VEGFR3 protein is expressed mainly on lymphatic vessels but it is also up-regulated in tumor angiogenesis. Mutations in VEGFR3 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.

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