



Recombinant Protein Technical Manual

Recombinant Human VEGFR3/FLT4 Protein (Fc Tag)(Active)
RPES0836

Product Data:

Product SKU: RPES0836

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_002011.2

Protein Information:

Molecular Mass: 111 kDa

AP Molecular Mass: 160, 85, 75 kDa

Tag: C-Fc

Bio-activity: Measured by its binding ability in a functional ELISA. 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.

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

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: FLT-4;FLT-41;FLT41;LMPH1A;PCL;VEGF Receptor 3;VEGFR-3;VEGFR3

Immunogen Information:

Sequence: Met 1-Ile 776

Background:

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