

Recombinant Human FLT4 protein, Fc-tagged

Cat. No. FLT4-347H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLT4 protein (Tyr25-Ile776), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	752
Description	Vascular endothelial growth factor receptor 3 (VEGFR3), also known as FLT-4, 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). VEGFR3 mediates lymphangiogenesis in response to VEGF-C and VEGF-D. VEGF R3 is widely expressed in the early embryo but becomes restricted to lymphatic endothelia at later stages of development. It is likely that VEGF R3 may be important for lymph angiogenesis.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 111.2 kDa. As a result of glycosylation, the protein migrates as 140-160 kDa under reducing (R) condition, and 280-320 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per ug by the LAL method.

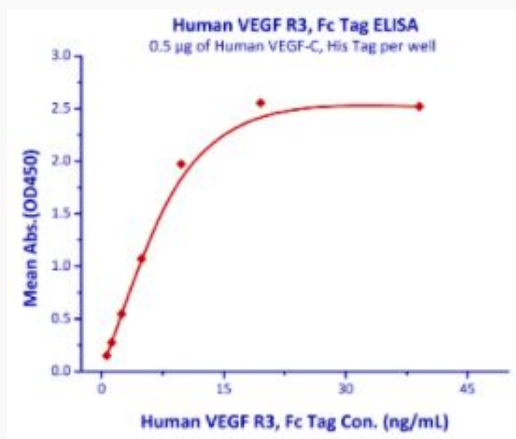
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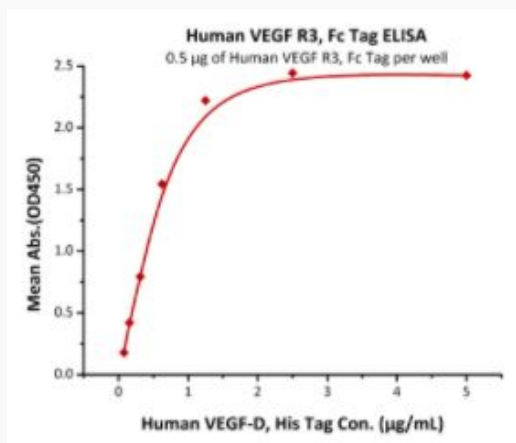
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	FLT4
Official Symbol	FLT4
Synonyms	PCL; FLT-4; FLT41; LMPH1A; LMPHM1; VEGFR3; VEGFR-3
Gene ID	2324
mRNA Refseq	NM_002020.5
Protein Refseq	NP_002011.2
MIM	136352
UniProt ID	P35916

**Bioactivity-ELISA of
FLT4-347H**



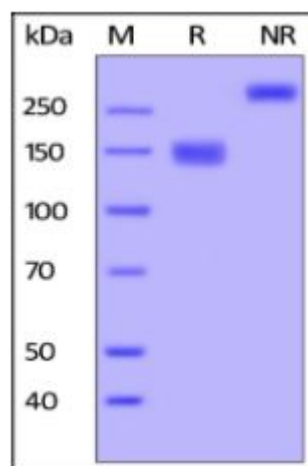
Immobilized Human VEGF-C, His Tag at 5µg/mL (100 µL/well) can bind Human VEGFR3, Fc Tag with a linear range of 0.6-10 ng/mL (QC tested).

**Bioactivity-ELISA of
FLT4-347H**



Immobilized Human VEGFR3, Fc Tag at 5µg/mL (100 µL/well) can bind Human VEGF-D, His Tag with a linear range of 0.08-0.6 µg/mL (Routinely tested).

SDS-PAGE of FLT4-347H



Human VEGFR3, Fc Tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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