

Recombinant Rat Flt4 protein, His-tagged

Cat. No. Tnf-240R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Flt4 fused with His tag was expressed in E. coli.
Species	Rat
Source	E.coli
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). 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.
Form	Lyophilized from sterile PBS, pH 7.4
Purity	> 95 % as determined by SDS-PAGE
Storage	Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	Flt4 fms-related tyrosine kinase 4 [Rattus norvegicus]
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Official Symbol	Flt4
Synonyms	FLT4; fms-related tyrosine kinase 4; vascular endothelial growth factor receptor 3; FLT-4; VEGFR-3; FMS-like tyrosine kinase 4; tyrosine-protein kinase receptor FLT4; Vegfr3;
Gene ID	114110
mRNA Refseq	NM_053652
Protein Refseq	NP_446104
UniProt ID	Q91ZT1
Chromosome Location	10q21
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Signal Transduction, organism-specific biosystem; Signaling by VEGF, organism-specific biosystem; VEGF binds to VEGFR leading to receptor dimerization, organism-specific biosystem;
Function	ATP binding; growth factor binding; growth factor binding; nucleotide binding; protein phosphatase binding; receptor activity; transmembrane receptor protein tyrosine kinase activity; vascular endothelial growth factor-activated receptor activity; vascular endothelial growth factor-activated receptor activity; vascular endothelial growth factor-activated receptor activity;