

## Recombinant Human sVEGFR-3/Fc Chimera

<b>Catalog No.</b>	CRF100A CRF100B	<b>Quantity:</b>	10 µg 50 µg
<b>Description:</b>	<p>Recombinant human soluble Vascular Endothelial Growth Factor Receptor-3 (sVEGFR-3) was fused with the Fc part of human IgG<sub>1</sub>. The recombinant mature sVEGFR-3/Fc is a disulfide-linked homodimeric protein. The sVEGFR-3/Fc monomers have a mass of approximately 130 kDa. The soluble receptor protein consists of all 7 extracellular domains (Met1-Glu774).</p> <p>All three VEGF receptors belong to the class III subfamily of receptor tyrosine kinases (RTKs) characterized by the seven immunoglobulin-like loops in the extracellular domain. The expression of VEGFR-1 to -3 is almost exclusively restricted to haematopoietic precursor cells, vascular and lymphatic endothelial cells and to the monocyte/macrophage lineage. They play key roles in vasculogenesis, hematopoiesis, angiogenesis and lymphangiogenesis. The VEGFR-3/FLT-4 cDNA encodes a 1298 amino acid (aa) residue precursor protein with a 23 aa residue signal peptide. Mature VEGFR-3/FLT-4 is composed of a 751 aa residue extracellular domain, a 22 aa transmembrane domain and a 482 aa residue cytoplasmic domain. Both VEGF family members VEGF-C and VEGF-D have been shown to bind and activate VEGFR-3/FLT-4. The FLT-4 gene is widely expressed in the early embryo but becomes restricted to the lymphatic endothelial at latter stages of development. It is important for lymphangiogenesis.</p>		
<b>Source:</b>	Insect cells		
<b>Molecular Weight:</b>	~260 kDa		
<b>Subunit:</b>	Glycosylated dimer		
<b>Purity:</b>	> 90%, by SDS-PAGE and visualized by silver stain		
<b>Endotoxin Level:</b>	< 0.1 ng per µg of sVEGFR-3/Fc		
<b>Stabilizer:</b>	none		
<b>Buffer:</b>	none		
<b>Formulation:</b>	Lyophilized		
<b>Specific Activity:</b>	Measured by its ability to bind recombinant rat VEGF-C in a functional solid phase binding assay. Immobilized recombinant human sVEGFR-3/Fc at 5 µg/ml can bind recombinant rat VEGF-C in a linear range of 8-500 ng/ml.		
<b>Reconstitution:</b>	The lyophilized sVEGFR-3/Fc is soluble in water and most aqueous buffers. The lyophilized sVEGFR-3/Fc should be reconstituted in PBS or medium to a concentration not lower than 100 µg/ml.		
<b>Stability:</b>	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sVEGFR-3/Fc should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.		



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**References:** Search [PubMed](#) (MEDLINE) for references to this product.

**Please note: always centrifuge vials before opening.**

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**Cell Sciences, Inc.**  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Web site: [www.cellsciences.com](http://www.cellsciences.com)