

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com **OriGene Technologies GmbH** 

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

## DA3535S Human VEGFR-3 / Flt-4 (His-tagged) - Purified Alternate names: FLT4. Tyrosine-protein kinase receptor FLT4. VEGF Receptor 3. VEGFR3. Vascular

Alternate names:	FLT4, Tyrosine-protein kinase receptor FLT4, VEGF Receptor 3, VEGFR3, Vascular endothelial growth factor receptor 3
Quantity:	5 µg
Background:	Recombinant human soluble Vascular Endothelial Growth Factor Receptor-3 (sVEGFR-3/FLT-4) was fused with a carboxy-terminal 6X histidine-tag. All three VEGF receptors belong to the class III subfamily of receptor tyrosine kinases (RTKs) characterised by the seven immunoglobulin-like loops in the extracellular domain. The expression of VEGFR-1 to -3 is almost exclusively restricted to hematopoietic precursor cells, vascular and lymphatic endothelial cells and to the monocyte/macrophage lineage. They play key roles in vasculogenesis, hematopoiesis, angiogenesis and lymphangiogenesis. The 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 a latter stages of development. It is important for lymphangiogenesis.
Uniprot ID:	<u>P35916</u>
NCBI:	<u>NP_002011.2</u>
GenelD:	2324
Species:	Human
Source:	Insect cells
Format:	<b>State:</b> Lyophilized without buffer and stabilizer. <b>Purity:</b> >90% by SDS-PAGE and visualised by silver stain <b>Endotoxin Level:</b> < 0.1 ng per μg of sVEGFR-3 <b>Reconstitution:</b> Restore in PBS or medium to a concentration not lower than 100 μg/ml.
Description:	The recombinant mature sVEGFR-3/FLT-4 is a glycosylated monomeric protein with a mass of approximately 120 kDa. The soluble receptor protein consists of all 7 extracellular domains (Met1-Glu774). <b>Biological Activity:</b> Measured by its ability to bind recombinant rat VEGF-C in a functional solid phase binding assay. Immobilised recombinant human sVEGFR-3/FLT-4 at 5 µg/ml can bind recombinant rat VEGF-C in a functional solid phase of 8-500 ng/ml. <b>Molecular weight:</b> 120 kDa
Add. Information:	Centrifuge vials before opening!

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

	DA3535S: Human VEGFR-3 / Flt-4 (His-tagged) - Purified
Storage:	Prior to and following reconstitution store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Joukov et al., EMBO J 15:290, 1996. 2. Kukk et al., Development 122:3829, 1996.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.