

FLT4

Recombinant Human VEGFR-3 Fc Chimera, soluble

Catalog No.	CRF100A CRF100B	Quantity:	10 µg 50 µg
Alternate Names:	Vascular endothelial growth factor receptor 3, Fms-like tyrosine kinase 4, FLT-4		
Description:	Recombinant human Vascular Endothelial Growth Factor Receptor-3 was fused with the Fc part of human IgG ₁ . The soluble receptor protein consists of all 7 extracellular domains (Met1-Glu774). 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.		
UniProt ID:	P35916		
GenelD:	2324		
Source:	Insect cells		
Molecular Weight:	130 kDa (979 aa) predicted, homodimer		
Formulation:	Lyophilized from PBS		
Purity:	> 90%, by SDS-PAGE and visualized by silver stain		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	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.		
Reconstitution:	Centrifuge vial prior to opening. 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.		
Storage & Stability:	Lyophilized samples are stable for greater than six months at -20°C to -80°C. Reconstituted sVEGFR-3/Fc should be stored in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

Amino Acid Sequence: YSMTPTLNITEDSYVIDTGDSLISCRGQHLEWTPGAQEVLTGGKDSSETRVVHD
CEGTEARPYCKVLLLAQTHANNTGSYHCYYKYIKARIEGTTAASTYVFVRDFKHFPINKP
DTLLVNRKDSMWVPCLVSIPGLNITLRSQSSALHPDGQEVWDDRRGMRVPTQLLRDA
LYLQCETTWDQNFLSNLFFVHITGNELYDIQLYPKKSMEELLVGEKLVNCTVWAEFDS
GVTFDWDYPGKQAERAKWVPERRSQQTHTELSSILTIHNVSQNDLGPPYVCEANNGIQR
FRETEVIVHEKPFISVEWLKGPVLEATAGDELVKLPVKLAAYPPPEFQWYKDRKAVTG
RHNPHALVLKEVTEASAGVYTLALWNSAAGLRQNISELVNVPPHIHEKEASSPSIYSR
HSRQTLTCTAYGVPQPLSVQWHWRPWTPCKTFAQRSLRRRQQRDGMPPQCRDWKEV
TTQDAVNPIESLDSWTEFVEGKNKTVSKLVIQDANVSAMYKCVVNVKVGQDERLIYFYV
TTIPDGFSIESEPSSEDPLEGQSVRLSCRADNYTYEHLRWYRLNLSTLHDAQGNPLLLDC
KNVHLFATPLEANLEEAEPGARHATLSLNIPRVAPEDEGDYVCEVQDRRSQDKHCHKK
YLSVQALEAPRLTQNLTDLLVNVSDSLEMRCPVAGAHVPSIVWYKDERLLEKESGIDLA
DSNQRLSIQRVREEDAGRYLCSVCNAKGCVNSSASVAVEGSEDKGSMESEDKTHTCPP
CPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHN
AKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPMLDSDGS
FFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

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