

## Recombinant Human KDR, Fc-tagged

**Cat. No.** KDR-31716TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment: human soluble Vascular Endothelial Growth Factor Receptor 2 (sVEGFR2) was fused with the Fc part of human IgG1 and expressed in Insect cells. The recombinants VEGFR2/Fc is a disulfide-linked homodimeric protein, M.Wt of the monomer is
<b>Species</b>	Human
<b>Description</b>	Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas.
<b>Conjugation</b>	Fc
<b>Form</b>	Lyophilised: sVEGFR 2/Fc should be reconstituted in PBS or medium to a concentration not lower than 50 µg/ml.
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: PBS, pH 7.4

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 7 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	KDR kinase insert domain receptor (a type III receptor tyrosine kinase) [ Homo sapiens ]
<b>Official Symbol</b>	KDR
<b>Synonyms</b>	KDR; kinase insert domain receptor (a type III receptor tyrosine kinase); vascular endothelial growth factor receptor 2; CD309; FLK1; VEGFR; VEGFR2;
<b>Gene ID</b>	3791
<b>mRNA Refseq</b>	NM_002253
<b>Protein Refseq</b>	NP_002244
<b>MIM</b>	191306
<b>Uniprot ID</b>	P35968
<b>Chromosome Location</b>	4q11-q12
<b>Pathway</b>	Angiogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction,

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organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem;

**Function**

ATP binding; Hsp90 protein binding; growth factor binding; integrin binding; nucleotide binding;

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