

## Recombinant Human KDR, His-tagged

Cat. No. KDR-31715TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment from Human VEGFR2; M.Wt 116 kDa. Glycosylated monomer. This protein consists of all 7 extracellular domains, which contain all the information necessary for high affinity ligand binding. Source: Insect cells.
<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>	HIS
<b>Form</b>	Lyophilised: Reconstitute in water or PBS to a concentration of not lower than 100 µg/ml.
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 100mM Sodium chloride, 10mM Tris, pH 8.0
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated

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freeze / thaw cycles.

**Sequence Similarities**

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.

## GENE INFORMATION

**Gene Name**

KDR kinase insert domain receptor (a type III receptor tyrosine kinase) [ Homo sapiens ]

**Official Symbol**

[KDR](#)

**Synonyms**

KDR; kinase insert domain receptor (a type III receptor tyrosine kinase); vascular endothelial growth factor receptor 2; CD309; FLK1; VEGFR; VEGFR2;

**Gene ID**

[3791](#)

**mRNA Refseq**

[NM\\_002253](#)

**Protein Refseq**

[NP\\_002244](#)

**MIM**

[191306](#)

**Uniprot ID**

[P35968](#)

**Chromosome Location**

4q11-q12

**Pathway**

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

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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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