

Recombinant Human KDR, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Description	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.
Conjugation	HIS
Form	Lyophilised: Reconstitute in water or PBS to a concentration of not lower than 100 µg/ml.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 100mM Sodium chloride, 10mM Tris, pH 8.0
Storage	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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