Recombinant Human Kinase Insert Domain Receptor (a type III receptor tyrosine kinase), Fc-tagged

Cat. No. KDR-5442H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KDRwas fused with the Fc part of human IgG1. The recombinant mature KDRis a disulfide-linked homodimeric protein. The KDR monomers have a mass ofapproximately 160 kDa.
Species	Human
Source	Insect Cells
Description	KDR has a lower affinity for VEGF than theFlt-1 receptor, but a higher signaling activity. Mitogenic activity inendothelial cells is mainly mediated by KDR leading to their proliferation.Differential splicing of the flt-1 gene leads to the formation of a secreted,soluble variant of VEGFR-1 (sVEGFR-1). No naturally occurring, secreted formsof KDR have so far been reported. The binding of VEGF165 to KDR is dependenton heparin.
Form	Lyophilized
Molecular Weight	160 kDa
Purity	> 90%, bySDS-PAGE and visualized by silver stain
Endotoxin Level	< 0.1 ng per ugof KDR
Biological Activity	The activity of KDRwas determined by its ability to inhibit the VEGF-dependent

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	proliferation ofhuman umbilical vein endothelial cells. The ED50 for this effectis typically 10-30 ng/ml.
Reconstitution	The lyophilized KDRis soluble in water and most aqueous buffers. The lyophilized KDR should bereconstituted in PBS or medium to a concentration not lower than 50 ug/ml.
Storage	Lyophilizedsamples are stable for greater than six months at -20°C to -70°C.Reconstituted KDR should be stored in working aliquots at -20°C. Avoidrepeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	KDR kinase insert domain receptor (a typeIII receptor tyrosine kinase) [Homo sapiens]
Official Symbol	KDR
Synonyms	KDR; kinase insertdomain receptor (a type III receptor tyrosine kinase); FLK1;CD309; VEGFR; VEGFR2; vascular endothelial growth factor receptor 2; solubleVEGFR2; OTTHUMP00000158928; fetal liver kinase 1; fetal liver kinase-1;protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factorreceptor
Gene ID	3791
mRNA Refseq	NM_002253
Protein Refseq	NP_002244
MIM	191306

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UniProt ID	P35968
Chromosome Location	4q11-q12
Pathway	Cytokine-cytokine receptorinteraction; Endocytosis; Focal adhesion; VEGF signaling pathway; Signalingby VEGF
Function	ATP binding; growth factorbinding; nucleotide binding; receptor activity; transferase activity;vascular endothelial growth factor receptor activity
Renderingof KDR	

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