

Active Recombinant Human KDR Protein, His & Avi-tagged, Biotinylated

Cat. No. KDR-6967H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human KDR Protein (Ala 20 - Glu 764) (AAI31823), fused with an Avi tag at the C-terminus, followed by a polyhistidine tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Ala 20 - Glu 764
Predicted N Terminal	Ala 20
Form	Lyophilized from sterile PBS, pH7.4, 10% trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Human VEGF, Tag Free at 2µg/mL (100 µL/well) can bind Biotinylated Human VEGF R2, His Tag with a linear range of 0.15-2.5 µg/mL.
Molecular Mass	Recombinant Human KDR Protein has a calculated MW of 86 kDa. The protein migrates as 120-130 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

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; soluble VEGFR2; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factor receptor;
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	Angiogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem;
Function	ATP binding; Hsp90 protein binding; growth factor binding; integrin binding; nucleotide binding; protein binding; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; vascular endothelial growth factor-activated receptor activity;