

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

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

SPECIFICATION

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| 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

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| 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; |

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