

## Active Recombinant Human KDR Protein, hFc-tagged

**Cat. No.** KDR-0643H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human KDR Protein (NP_002244.1) (Asp120-Lys327) was expressed in HEK293, fused with the Fc region of human IgG1 at the C-terminus.                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Asp120-Lys327                                                                                                                                                                                     |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                 |
| <b>Bio-activity</b>     | Measured by its ability to inhibit VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC) in the presence of 10 ng/mL rhVEGF165. The ED50 for this effect is 20-80 ng/mL. |
| <b>Molecular Mass</b>   | The recombinant human KDR consists of 449 amino acids and predicts a molecular mass of 50.4 kDa.                                                                                                  |
| <b>Endotoxin</b>        | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                          |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE.                                                                                                                                                                 |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C                                                                                                                 |

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Store it under sterile conditions at -20°C to -80°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.

## 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

**UniProt ID**

P35968

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