

# Active Recombinant Human KDR protein, His-tagged

**Cat. No.** KDR-6966H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human KDR protein(Ala20-Glu764), fused with C-terminal His tag, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 20-764 aa                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>             | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | 1. Measured by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells(HUVEC). The ED50 for this effect is typically 10-50 µg/mL in the presence of 10 ng/mL recombinant human VEGF165. 2. Measured by its binding ability in a functional ELISA. Immobilized PE anti-human CD309 (VEGFR2) Antibody at 1 µg/mL (25 µL/well) can bind Human VEGFR2 with a linear range of 0.46-68.8 ng/mL. |
| <b>Molecular Mass</b>   | 84.11 kDa                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>        | < 0.1 EU/µg of the protein by LAL method.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | ≥ 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at -20°C.Store the lyophilized protein at -20°C to -80°C up to 1 year from the                                                                                                                                                                                                                                                                                                                                                |

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date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## GENE INFORMATION

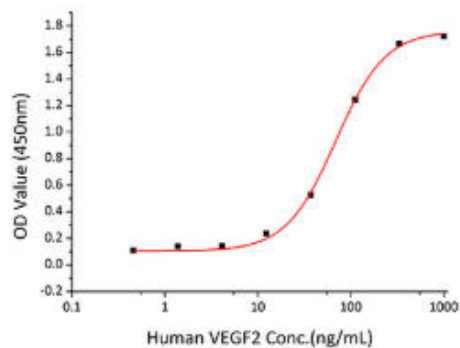
|                 |                                                                                                                                                                                                                                                                                                  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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## Activity



## SDS-PAGE

