

# Active Recombinant Human KDR, His-tagged, Biotinylated

**Cat. No.** KDR-630H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	The recombinant human KDR/VEGFR2/CD309 extracellular or ecto-domain (ECD) is expressed as a 756 amino acid protein consisting of Ala20 - Glu764 region of KDR and a C-terminal His-tag. It contains 18 potential N-linked glycosylation sites.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	20-764 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Binds VEGF and inhibits VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC).
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 84.6; Estimated by SDS-PAGE under reducing condition (kDa): 110-120 suggesting that the protein is glycosylated.
<b>AA Sequence</b>	ASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDLDWLWPNNQSGSEQRVEV TECSDGLFCKTLTIPKVI GNDTGAYKCFYRETDLASVIYVVYVQDYRSPFIASVSDQHG VYYITENKNKTVVIPCLGSISNLNVSLCARYPEK RFVPDGNRISWDSKKGFTIPSYMI SYAGMVFCEAKINDESYQSIMYIVVVVGYRIYDVVLSPSHGIELSVGEKL VLNCTART ELNVGIDFNWEYPSSKHQHKLVNRDLKTQSGSEMKKFLSTLTIDGITRSDQGLYTC AASSGLMTK KNSTFVRVHEKPFVAFGSGMESLVEATVGERVRIPAKYLGYPPEIK

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WYKNGIPLESNHTIKAGHVLTIMEVSE RDTGNYTVILTNPISKEKQSHVVSLVVYVPP  
 QIGEKSLISPVDSYQYGTTQTLTCTVYAIPPPHHHWYWQLEEE CANEPHAVSVTN  
 PYPCEEWRVSEDFQGGNKIEVNKNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNK  
 VGRG ERVISFHVTRGPEITLQPDMPTEQESVSLWCTADRSTFENLTWYKLGQPPL  
 PIHVGELPTPVCKNLDTLWKLN ATMFSNSTNDILIMELKNASLQDQGDYVCLAQDRK  
 TKKRHCVVRQLTVLERVAPTITGNLENQTTSIGESIEVS CTASGNPPPQIMWFKDNE  
 TLVEDSGIVLKDGNRNLTIRRVKEDGLYTCQACSVLGCAKVEAFFIIEGAQEKT NL  
 ESTGHHHHHHHH

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the lal>

**Purity** >90% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**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

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	VEGFR2; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factor receptor;
<b>Gene ID</b>	<a href="#">3791</a>
<b>mRNA Refseq</b>	<a href="#">NM_002253</a>
<b>Protein Refseq</b>	<a href="#">NP_002244</a>
<b>MIM</b>	<a href="#">191306</a>
<b>UniProt ID</b>	<a href="#">P35968</a>
<b>Chromosome Location</b>	4q11-q12
<b>Pathway</b>	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;
<b>Function</b>	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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