

Active Recombinant Human KDR, Fc-tagged, Biotinylated

Cat. No. KDR-631H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human KDR/VEGFR2/CD309 extracellular or ecto-domain (ECD) Fc-fusion protein is expressed as a 756 amino acid protein consisting of Ala20 - Glu764 region of KDR and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
Species	Human
Source	Human Cells
ProteinLength	20-764 a.a.
Form	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).
Bio-activity	Binds VEGF and inhibits VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC).
Molecular Mass	Calculated molecular mass (kDa): 108.9; Estimated by SDS-PAGE under reducing condition (kDa): 130-140.
AA Sequence	ASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDLDWLWPNNQSGSEQRVEV TECSDGLFCKTLTIPKVI GNDTGAYKCFYRETDLASVIYVVVQDYRSPFIASVSDQHG VYYITENKNKTVVIPCLGSISNLNVSLCARYPEK RFVPDGNRISWDSKKGFTIPSYMI SYAGMVFCEAKINDESYQSIMYIVVVVGYRIYDVLSPSHGIELSVGEKL VLNCTART ELNVGIDFNWEYPSSKHQHKLVNRDLKTQSGSEMKKFLSTLTIDGITRSDQGLYTIC

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AASSGLMTK KNSTFVRVHEKPFVAFGSGMESLVEATVGERVRIPAKYLGYPPEIK
 WYKNGIPLESNHTIKAGHVLTIMEVSE RDTGNYTVILTNPISKEKQSHVVSLLVYVPP
 QIGEKSLISPVDSYQYGTTQTLTCTVYAIPPPHHIHWYWQLEE ECANEPHAVSVTN
 PYPCEEWRSVEDFQGGNKIEVNKNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNK
 VGR GERVISFHVTRGPEITLQPDMPTEQESVSLWCTADRSTFENLTWYKLGQPPL
 PIHVGEPTPVCKNLDTLWKL NATMFSNSTNDILIMELKNASLQDQGDYVCLAQDRK
 TKKRHCVVRQLTVLERVAPTITGNLENQTTSIGESIEV SCTASGNPPPQIMWFKDNE
 TLVEDSGIVLKDGNRNLTIIRVRKEDEGLYTCQACSVLGCCKVEAFFIIEGAQEK TNL
 ESTGHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF
 NWYVDGVEVHNAKT KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA
 PIEKTISKAKGQPREPQVYTLPPSREEMTKNQV SLTCLVKGFYPSDIAVEWESNGQ
 PENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYT QKSL
 SLSPGK

Endotoxin

<0.1 eu="" per="" 1="" µg="" of="" purified="" recombinant="" protein=""
 determined="" by="" the="" lal="">

Purity

>95% 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

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	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
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

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tyrosine kinase activity; vascular endothelial growth factor-activated receptor activity;

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