

Active Recombinant Human KDR, His-tagged, Biotinylated

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

SPECIFICATION

Product Overview	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.
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): 84.6; Estimated by SDS-PAGE under reducing condition (kDa): 110-120 suggesting that the protein is glycosylated.
AA Sequence	ASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDLWLWPNNQSGSEQRVEV TECSDGLFCKTLTI PKVI GNDTGAYKCFYRETDLASVIYVVYVQDYRSPFIASVSDQHG VYYITENKNKTVVIPCLGSISNLNVSLCARYPEK RFVPDGNRISWDSKKGFTIPSYMI SYAGMVFCEAKINDESYQSIMYIVVVVGYRIYDVVLSPSHGIELSVGEKL VLNCTART ELNVGIDFNWEYPSSKHQHKLVNRDLKTQSGSEMKKFLSTLTIDGITRSDQGLYTC AASSGLMTK KNSTFVRVHEKPFVAFGSGMESLVEATVGERVRIPAKYLGYPPEIK

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WYKNGIPLESNHTIKAGHVLTIMEVSE RDTGNYTVILTNPISKEKQSHVSVLVVYVPP
 QIGEKSLISPVDSYQYGTTQTLTCTVYAIPPPHHIHWYWQLEEE CANEPHAVSVTN
 PYPCEEWRSVEDFQGGNKIEVNKNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNK
 VGRG ERVISFHVTRGPEITLQPDMPTEQESVSLWCTADRSTFENLTWYKLGPQPL
 PIHVGEPTPVCKNLDLWKLN ATMFSNSTNDILIMELKNASLQDQGDYVCLAQDRK
 TKKRHCVRQLTVLERVAPTITGNLENQTTSIGESIEVS CTASGNPPPQIMWFKDNE
 TLVEDSGIVLKDGNRNLTIRVRKEDEGLYTCQACSVLGCAKVEAFFIIEGAQEK 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;
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 tyrosine kinase activity; vascular endothelial growth factor-activated receptor activity;