

Recombinant Human Kinase Insert Domain Receptor (a type III receptor tyrosine kinase), GST-tagged

Cat. No. KDR-5446H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KDR(aa 805-1356) has a N-terminal GST Tag and has a MW=87.0 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	805-1356 a.a.
Description	Kinase insertdomain receptor (KDR, a type III receptor tyrosine kinase) also known asvascular endothelial growth factor receptor 2 (VEGFR-2) is a VEGF receptor.KDR is the human gene encoding it. KDR has also been designated as CD309(cluster of differentiation 309). KDR is also known as Flk1 (Fetal LiverKinase 1).
Form	Liquid containing 25mM Tris-HCL, pH 8.0 + 100 mM NaCl + 0.05% Tween-20 + 50% glycerol + 10 mMreduced glutathione + 3 mM DTT
Molecular Weight	87.0 kDa
Purity	>90% asdetermined by SDS-PAGE
Endotoxin Level	Less than 0.1 ng/gof protein
Biological Activity	One unit is definedas the amount of enzyme that will transfer 1 pmol phosphate to Tyr

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substrate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl₂, 3 mM MnCl₂, 1 mM DTT, 3 μM Na-orthovanadate, 0.5 mM ATP, 30 μg/ml Poly(Glu:Tyr) 4:1 substrate, 1 μg/ml recombinant VEGFR2.

Applications Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Storage Stable for more than 6 months when stored at -80°C.

Official Symbol KDR

GENE INFORMATION

Gene Name KDR kinase insert domain receptor (a type III receptor tyrosine kinase) [Homo sapiens]

Synonyms KDR; kinase insert domain receptor (a type III receptor tyrosine kinase); FLK1; CD309; VEGFR; VEGFR2; vascular endothelial growth factor receptor 2; soluble VEGFR2; OTTHUMP00000158928; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factor receptor; EC 2.7.10; EC 2.7.10.1

Gene ID 3791

mRNA Refseq NM_002253

Protein Refseq NP_002244

MIM 191306

UniProt ID P35968

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Chromosome Location	4q11-q12
Pathway	Angiogenesis;Cytokine-cytokine receptor interaction; Endocytosis; Focal Adhesion;HIF-2-alpha transcription factor network; Id Signaling Pathway; Integrins inangiogenesis; Neurophilin interactions with VEGF and VEGFR; Notch-mediatedHES/HEY network; S1P1 pathway; Signal Transduction; Signaling events mediatedby VEGFR1 and VEGFR2; VEGF binds to VEGFR leading to receptor dimerization;VEGF ligand-receptor interactions; VEGF signaling pathway
Function	ATP binding; Hsp90protein binding; growth factor binding; integrin binding; nucleotide binding;protein binding; protein tyrosine kinase activity; receptor activity;receptor signaling protein tyrosine kinase activity; transmembrane receptorprotein tyrosine kinase activity; vascular endothelial growthfactor-activated receptor activity
Rendering of 1VR2.	