

Recombinant Human KDR, Fc-His

Cat. No. KDR-1697H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFR2 encoding amino acid residues 1 - 764 of the extracellular domain of human VEGFR2 was fused to a 6X His-tagged Fc of human IgG1 via the peptide (IEGRMD). It was expressed in <i>NSO Cells</i> .
Species	Human
Source	Mammalian Cells
Description	Vascular endothelial growth factor receptor 2 (VEGF R2) is a transmembrane glycoprotein that is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration, and differentiation.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Molecular Weight	The predicted molecular weight of Recombinant Human KDR is Mr 110 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 160-170 kDa.
Biological Activity	The biological activity of Human KDR was determined by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells. The

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expected ED50 for this effect is typically 4-8 ng/ml in the presence of 5 ng/ml recombinant human VEGF165.

Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

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; VEGFR-2; Kinase insert domain receptor; Protein-tyrosine kinase receptor Flk-1; EC 2.7.10.1; fetal liver kinase-1; soluble VEGFR2; 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

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Pathway	Cytokine-cytokine receptor interaction; Endocytosis; Focal adhesion; VEGF signaling pathway; Signaling by VEGF
Function	ATP binding; growth factor binding; nucleotide binding; receptor activity; transferase activity; vascular endothelial growth factor receptor activity

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