

Active Recombinant Human KDR Protein, Fc/His-tagged, Alexa Fluor 555 conjugated

Cat. No. KDR-1697HAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 555 conjugated 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 NSO Cells.
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.
Form	Lyophilized
Bio-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 expected ED50 for this effect is typically 4-8 ng/mL in the presence of 5 ng/mL recombinant human VEGF165.
Molecular Mass	160-170 kDa
Endotoxin	< 1.0 EU/ µg as determined by the LAL method

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Purity	> 90 % by SDS-PAGE and analyzed by silver stain
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 555 via amines With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.
Stability	This lyophilized protein is stable for 6 to 12 months when stored desiccated at -20 to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 to 8 centigrade for one month or at -20 to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20 to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 to 8 centigrade for one month or at -20 to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Conjugation	Alexa Fluor 555

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); 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

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Gene ID	3791
mRNA Refseq	NM_002253
Protein Refseq	NP_002244
MIM	191306
UniProt ID	P35968

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