Active Recombinant Human KDR Protein, Fc-tagged, Alexa Fluor 647 conjugated

Cat. No. KDR-5442HAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 647 conjugated recombinant human KDRwas fused with the Fc part of human IgG1. The recombinant mature KDRis a disulfide-linked homodimeric protein. The KDR monomers have a mass ofapproximately 160 kDa.
Species	Human
Source	Insect Cells
Description	KDR has a lower affinity for VEGF than theFlt-1 receptor, but a higher signaling activity. Mitogenic activity inendothelial cells is mainly mediated by KDR leading to their proliferation.Differential splicing of the flt-1 gene leads to the formation of a secreted,soluble variant of VEGFR-1 (sVEGFR-1). No naturally occurring, secreted formsof KDR have so far been reported. The binding of VEGF165 to KDR is dependenton heparin.
Form	Lyophilized
Bio-activity	The activity of KDR was determined by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells. The ED50 for this effectis typically 10-30 ng/mL.
Molecular Mass	160 kDa
Endotoxin	< 0.1 ng/ μg of KDR

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Purity	> 90 % by SDS-PAGE and analyzed by silver stain
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Storage	Lyophilizedsamples are stable for greater than six months at -20 to -70 centigrade. Reconstituted KDR should be stored in working aliquots at -20 centigrade. Avoidrepeated freeze-thaw cycles.
Reconstitution	The lyophilized KDRis soluble in water and most aqueous buffers. The lyophilized KDR should bereconstituted in PBS or medium to a concentration not lower than 50 μg/mL.
Conjugation	Alexa Fluor 647

GENE INFORMATION

Gene Name	KDR kinase insert domain receptor (a typeIII receptor tyrosine kinase) [Homo sapiens]
Official Symbol	KDR
Synonyms	KDR; kinase insertdomain receptor (a type III receptor tyrosine kinase); FLK1; CD309; VEGFR; VEGFR2; vascular endothelial growth factor receptor 2; solubleVEGFR2; OTTHUMP00000158928; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factorreceptor
Gene ID	3791

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mRNA Refseq	NM_002253
Protein Refseq	NP_002244
MIM	191306
UniProt ID	P35968

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