

Recombinant Human KDR Protein, His-tagged

Cat. No. KDR-070H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein from the second and third Ig-like C2-type domains (D120-T320) of homo sapiens kinase insert domain receptor (a type III receptor tyrosine kinase) (KDR) (NM_002253), with a polyhistidine tag was expressed in human cells.
Species	Human
Source	Human Cells
ProteinLength	120-320 a.a.
Description	Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas.
Molecular Mass	25.1 kDa
Endotoxin	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU /μg)
Purity	>90% by SDS-PAGE gel and Coomassie Blue staining

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Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!
Storage Buffer	Purified protein formulated in a sterile solution of PBS buffer, pH7.2, without any preservatives
GENE INFORMATION	
Gene Name	KDR kinase insert domain receptor [Homo sapiens (human)]
Official Symbol	KDR
Synonyms	KDR; kinase insert domain receptor; FLK1; CD309; VEGFR; VEGFR2; vascular endothelial growth factor receptor 2; fetal liver kinase-1; kinase insert domain receptor (a type III receptor tyrosine kinase); protein-tyrosine kinase receptor Flk-1; soluble VEGFR2; tyrosine kinase growth factor receptor; 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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