

Recombinant Human KDR Protein, C13 and N15 Labeled

Cat. No. KDR-564H Lot. No. (See product label)

SPECIFICATION

Product Overview	C13 and N15 Labeled Recombinant human KDR protein without tag was expressed in HEK293..
Species	Human
Source	HEK293
ProteinLength	1356
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.
Form	Lyophilized
Molecular Mass	86.2 kDa
AA Sequence	MQSKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDL DWLWPNNQSGSEQRVEVTECSDGLFCKTLTIPKVIGNDTGAYKCFYRETDLASVIYV YVQDYRSPFIASVSDQHGVMYITENKNKTVVIPCLGSISNLNVSLCARYPEKRFVDPG

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NRISWDSKKGFTIPSYMISYAGMVFCEAKINDESYQSIMYIVVVVGYRIYDVVLSPSH
 GIELSVGEKLVNCTARTELVNVDGIDFNWEYPPSSKHQHKLVNRDLKTQSGSEMKKFL
 STLTIDGVTRSDQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFGSGMESLVEATVG
 ERVRIPAKYLGYPPEIKWYKNGIPLESNHTIKAGHVLTIMEVSERDTGNVTVILTNPIS
 KEKQSHVVSLVVVPPQIGEKSLISPVDSYQYGTTQTLTCTVYAIPPPHHIHWYQWL
 EEECANEPSQAVSVTNPYPCEEWRSVEDFQGGNKIEVNKNQFALIEGKNKTVSTLVI
 QAANVSALYKCEAVNKVGRGERVISFHVTRGPEITLQPDMQPTEQESVSLWCTADR
 STFENLTWYKLGPPQPLPIHVGELPTPVCKNLDLWKLNATMFSNSTNDILIMELKNAS
 LQDQGDYVCLAQDRKTKKRHCVVRQLTVLERVAPTITGNLENQTTSIGESIEVSCTA
 SGNPPQIMWFKDNETLVEDSGIVLKDGNRNLTIIRVRKEDEGLYTCQACSVLGA
 KVEAFFIIEGAQEKTNLEIILVGTAVIAMFFWLLLVIILRTVKRANGGELKTGYLSIVMD
 PDELPLDEHCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVIEADAFGIDKTATCRT
 VAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLGACTKPGGPLMVIVEFCKFG
 NLSTYLRSKRNEFVPHYKTKGARFRQGKDYVGAIPVDLKRRLDSITSSQSSASSGFVE
 EKSLSDVEEEEAPEDLYKDFLTLEHLICYSFQVAKGMEFLASRKCIIHRDLAARNILLSE
 KNVVKICDFGLARDIYKDPDYVRKGDARLPLKWMAPETIFDRVYTIQSDVWSFGVLL
 WEIFSLGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMLDCWHGEPSSQR
 PTFSELVEHLGNLLQANAQQDGKDYIVLPISETLSMEEDSGLSLPTSPVSCMEEEEV
 CDPKFHYDNTAGISQYLQNSKRKSRPVSVKTFEDIPLEEPEVKVIPDDNQTDSGMVL
 ASEELKTLEDRTKLSPSFGGMVPSKSRESVASEGSNQTSGYQSGYHSDDTDTTVYS
 SEEAELLKLIIGVQTGSTAQILQPDSGTTLSSPPV

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

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Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	KDR kinase insert domain receptor (a type III receptor tyrosine kinase) [Homo sapiens (human)]
Official Symbol	KDR
Synonyms	KDR; kinase insert domain receptor (a type III receptor tyrosine kinase); vascular endothelial growth factor receptor 2; CD309; FLK1; VEGFR; VEGFR2; soluble VEGFR2; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factor receptor;
Gene ID	3791
mRNA Refseq	NM_002253
Protein Refseq	NP_002244
MIM	191306

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UniProt ID

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