BioVision

01/12

For research use only

Recombinant Human VEGFR2

CATALOG #: 4952-10 10 µg
4952-100 100 µg

LOT #: _____

SYNONYMS: KDR D1-7, sKDR D1-7, Kinase insert domain receptor, Protein-tyrosine kinase receptor Flk-1, FLK1, VEGFR-2

SOURCE: Insect cells

PURITY: > 95 % by SDS-PAGE analyses
Endotoxin level is < 0.1 ng per µg.

MOL. WEIGHT: 116 kDa

FORM: KDR was lyophilized from a sterile solution containing 25 mM MES pH 5.5 and 100 mM NaCl.

STORAGE CONDITIONS: The lyophilized protein is best-stored desiccated at -20 ˚C.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile water to a concentration not less than 0.1 mg/ml. This solution can then be stored at 4˚C for 2-7 days. For future use for future use; For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA) then store at –20˚C. Avoid freeze-thaw cycles.

DESCRIPTION: VEGFR-2 has a lower affinity for VEGF than the Flt-1 receptor, but a higher signaling activity. Mitogenic activity in endothelial cells is mainly mediated by VEGFR-2 leading to their proliferation. No naturally occurring, secreted forms of VEGFR-2 have so far been reported. The binding of VEGF165 to VEGFR-2 is dependent on heparin. Soluble VEGFR-2 Human Recombinant produced in baculovirus is monomeric, glycosylated, polypeptide having a molecular mass of 116 kDa. The soluble receptor protein contains only the first 7 extracellular domains, which contain all the information necessary for ligand binding. The sKDR is purified by proprietary chromatographic techniques.

AMINO ACID SEQUENCE:

ASVGLPSVSL DLPRLSIQKD ILTIKANTTL QITCRGQRDL DWLWPNNQSG SEQRVEVTEC SDGLFCKTLT
IPKVIGNDTG AYKCFYRETD LASVIYVYVQ DYRSPFIASV SDQHGVVYIT ENKNKTVVIP CLGSISNLNV
SLCARYPEKR FVPDGNRISW DSKKGFTIPS YMISYAGMVF CEAKINDESY QSIMYIVVVV GYRIYDVVLS
PSHGIELSVG EKLVLNCTAR TELNVGIDFN WEYPSSKHQH KKLVNRDLKT QSGSEMKKFL STLTIDGVTR
SDQGLYTCAA SSGLMTKKNS FVRVHEKPFV AFGSGMESLV EATVGERVRI PAKYLGYPPP EIKWYKNGIP
LESNHTIKAG HVLTIMEVSE RDTGNYTVIL TNPISKEKQS HVVSLVVYVP TPQIGEKSLI SPVDSYQYGT
TQTLTCTVYA IPPPHHIHWY WQLEEECANE PSQAVSVTNP YPCEEWRSVE DFQGGNKIEV NKNQFALIEG
KNKTVSTLVI QAANVSALYK CEAVNKVGRG ERVISFHVTR GPEITLQPDM QPTEQESVSL WCTADRSTFE
NLTWYKLGPQ PLPIHVGELP TPVCKNLDTL WKLNATMFSN STNDILIMEL KNASLQDQGD YVCLAQDRKT
KKRHCVVRQL TVLERVAPTI TGNLENQTTS IGESIEVSCT ASGNPPPQIM WFKDNETLVE DSGIVLKDGN
RNLTIRRVRK EDEGLYTCQA CSVLGCAKVE AFFIIEGA

BIOLOGICAL ACTIVITY: The activity of VEGFR2 D1-7 was determined by its ability to abolish the binding of iodinated VEGF to solid surfaces or cell surfaces receptors. The ED_{50} for this effect is typically 10.0 ng/ml, corresponding to a specific activity of 100,000IU/mg.

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