

## 32-13013: VEGFR2 Human, His

**Alternative Name :** KDR D1-7, sKDR D1-7, Kinase insert domain receptor, Protein-tyrosine kinase receptor Flk-1, CD309, type III receptor tyrosine kinase, FLK1, VEGFR-2.Å

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes. All VEGF-receptors have seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. 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. 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 forms of VEGFR-2 have so far been reported. The binding of VEGF165 to VEGFR-2 is dependent on heparin.

VEGFR2 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 987 amino acids (20-764a.a) and having a molecular mass of 110.5kDa (Molecular size on SDS-PAGE will appear at approximately 100-150kDa). VEGFR2 is fused to a 239 amino acids hlgG-His-tag at C-terminus & purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90% as determined by SDS-PAGE.

**Content :** VEGFR2 solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** ADPASVGLPS VSLDLPRLSI QKDILTIKAN TTLQITCRGQ RDLDWLWPNN QSGSEQRVEV TECSDGLFCK TLTIPIKVIGN DTGAYKCFYR ETDLASVIYV YVQDYRSPFI ASVSDQHGCV YITENKNKT VVIPCLGSISN LNVSLCARYP EKRFVPDGNR ISWDSKKGFT IPSYMISYAG MVFCEAKIND ESYQSIMYIV VVVGRIYIDV VLSPSHGIEL SVGEKLV LNC TARTELVNGI DFNWEYPSK HQHKLVNRD LKTQSGSEM KFLSTLTIDG VTRSDQGLYT CAASSGLMTK KNSTFVRVHE KPFVAFSGM ESLVEATVGE RVRIPAKYLG YPPPEIKWYK NGIPLESNHT IKAGHVLTIM EVSERDTGNY TVILTNPISK EKQSHVSVLV VYVPPQIGEK SLISPVDSYQ YGTTQTLTCT VYAIPPPHHI HWYWQLEEEC ANEPSQAVSV TNPYPCEEWR SVEDFQGGNK IEVKNQFAL IEGKNKT VST LVIQAANVSA LYKCEAVNKV GRGERVISFH VTRGPEITLQ PDMQPTEQES VSLWCTADRS TFENLTWYKL GPQPLPIHVG ELPTPVCKNL DTLWKLNATM FSNSTNDILI MELKNASLQD QGDYVCLAQD RKTCKRHCVV RQLTVLERA PTITGNLENQ TTSIGESIEV SCTASGNPPP QIMWFKDNET LVEDSGIVLK DGNRNLTI RR VRKEDEGLYT CQACSVL GCA KVEAFFIIEG AQEKTNLELE PKSCDKTHC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTPPP VLDSGDSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKLSLSLSPG KHHHHHHH.