
Product Data Sheet

Product Name: VEGFR2 Human, His

Cat. No.: GP22652

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms 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.

ADPASVGLPS VSLDLPRLSI QKDILTIKAN TTLQITCRGQ RDLDWLWPNN
 QSGSEQRVEV TECSDGLFCK TLTIKPVIGN DTGAYKCFYR ETDLASVIYV
 YVQDYRSPFI ASVSDQHGVV YITENKNKTV VIPCLGSISN LNVSLCARYP
 EKRFVPDGNR ISWDSKKGFT IPSYMISYAG MVFCEAKIND ESYQSIMYIV
 VVVGRIYDV VLSPSHGIEL SVGEKLV LNC TARTELVNGI DFNWEYPSSK
 HQHKLVNRD LKTQSGSEM KFLSTLTIDG VTRSDQGLYT CAASSGLMTK
 KNSTFVRVHE KPFVAFGSGM ESLVEATVGE RVRIPAKYLG YPPPEIKWYK
 NGIPLESNHT IKAGHVLTIM EVSERDTGNY TVILTNPISK EKQSHVVS LV
 VYVPPQIGEK SLISPVDSYQ YGTTQTLTCT VYAIPPPHHI HWYWQLEEEC
 ANEPSQAVSV TNPYPCEEWR SVEDFQGGNK IEVNKNQFAL IEGKNKTVST
 LVIQAANVSA LYKCEAVNKV GRGERVISFH VTRGPEITLQ PDMQPTEQES
 VSLWCTADRS TFENLTWYKL GPQPLPIHVG ELPTPVCKNL DTLWKLNATM
 FSNSTNDILI MELKNASLQD QGDYVCLAQD RKTCKRHCVV RQLTVL ERVA
 PTITGNLENQ TTSIGESIEV SCTASGNPPP QIMWFKDNET LVEDSGIVLK
 DGNRNLTIRR VRKEDEGLYT CQACSVLGCA KVEAFFIIEG AQEKTNLELE
 PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV
 SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG
 KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT
 CLVKGFYPSD IAVEWESNGQ PENNYKTPPP VLDSDGSFFL YSKLTVDKSR
 WQQGNVFSCS VMHEALHNHY TQKSLSLSPG KHHHHHHH.

Amino Acid Sequence

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

Caution: Product has not been fully validated for medical applications. For research use only.

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Introduction

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.

Stability

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.

Background

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 hIgG-His-tag at C-terminus & purified by proprietary chromatographic techniques.

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