

Datasheet for ABIN1589573

VEGFR2/CD309 Protein (glycosylated, Monomer, Soluble)



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Overview

|                          |                                |
|--------------------------|--------------------------------|
| Quantity:                | 5 µg                           |
| Target:                  | VEGFR2/CD309 (VEGFR2)          |
| Protein Characteristics: | glycosylated, Monomer, Soluble |
| Origin:                  | Human                          |
| Source:                  | Insect Cells                   |
| Protein Type:            | Recombinant                    |
| Biological Activity:     | Active                         |

Product Details

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Purpose:  | VEGFR-2/KDR (D7), soluble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence: | ASVGLPSVSL DLPRLSIQKD ILTIKANTTL QITCRGQRDL DWLWPNNQSG SEQRVEVTEC<br>SDGLFCKTLT IPKVIGNDTG AYKCFYRETD LASVIYVYVQ DYRSPFIASV SDQHGVVYIT<br>ENKNKTVVIP CLGSISNLNV SLCARYPEKR FVPDGNRISW DSKKGFTIPS YMISYAGMVF<br>CEAKINDESY QSIMYIVVVV GYRIYDVVLS PSHGIELSVG EKLVLNCTAR TELNVGIDFN<br>WEYPSSKHQH KKLVNRLKT QSGSEMKKFL STLTIDGVTR SDQGLYTCAA SSGLMTKKNS<br>TFVRVHEKPF VAFGSGMESL VEATVGERVR IPAKYLGYPP PEIKWYKNGI PLESNHTIKA<br>GHVLTIMEVS ERDTGNYTVI LTNPISKEKQ SHVVSLVVYV PPQIGESLI SPVDSYQYGT<br>TQTLTCTVYA IPPPHHHHWY WQLEEECANE PSQAVSVTNP YPCEEWRVSE DFQGGNKIEV<br>NKNQFALIEG KNKTVSTLVI QAAVNSALYK CEAVNKVGRG ERVISFHVTR GPEITLQPDM<br>QPTEQESVSL WCTADRSTFE NLTWYKLG PQ PLPIHVGELP TPVCKNLDTL WKLNATMFSN<br>STNDILIMEL KNASLQDQGD YVCLAQDRKT KKRHCVVRQL TVLERVAPTI TGNLENQTTS<br>IGESIEVSCT ASGNPPPQIM WFKDNETLVE DSGIVLKDGN RNLTI RVRK EDEGLYTCQA |

## Product Details

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|                  | CSVLGCAKVE AFFIIEGA           |
| Specificity:     | Chromosomal location:4q11-q12 |
| Characteristics: | Length (aa):738               |
| Purity:          | > 95 % by SDS-PAGE            |

## Target Details

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|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | VEGFR2/CD309 (VEGFR2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Alternative Name: | VEGFR-2/KDR ( <a href="#">VEGFR2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Background:       | <p>Recombinant Human soluble Endothelial Growth Factor Receptor-2 (sKDR(D7)) is produced as a non-chimeric protein in a monomeric form. The soluble receptor protein consists of all 7 extracellular domains, which contain all the information necessary for high affinity ligand binding. The receptor monomers have a mass of approximately 116 kDa. 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. The binding of VEGF165 to VEGFR-2 is dependent on heparin.</p> <p>Synonyms: soluble vascular endothelial growth factor receptor-2 , soluble CD309, soluble VEGF receptor-2, sKDR</p> |
| Molecular Weight: | 116.0 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene ID:          | 3791                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NCBI Accession:   | <a href="#">NM_002253</a> , <a href="#">NP_002244</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt:          | <a href="#">P35968</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pathways:         | <a href="#">RTK Signaling</a> , <a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Growth Factor Binding</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a> , <a href="#">VEGF Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Application Details

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| Application Notes: | Measured by its ability to inhibit the VEGF165-induced proliferation in human umbilical vein endothelial (HUVE) cells. |
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| Comment: | Soluble Receptors |
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| Restrictions: | For Research Use only |
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## Handling

|         |             |
|---------|-------------|
| Format: | Lyophilized |
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| Reconstitution: | The lyophilized human sKDR is soluble in water and most aqueous buffers, it should be reconstituted in water or PBS to a concentration of not lower than 100 µg/mL. |
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| Buffer: | 25 mM MES, 100 mM NaCl, pH 5.5 |
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| Handling Advice: | Avoid repeated freeze-thaw cycles. |
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| Storage: | 4 °C, -20 °C, -80 °C |
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| Storage Comment: | The material is stable for greater than six months at -20° C to -70° C. After the first thawing it is recommended to aliquote the material, because repeated freeze-thaw cycles will decrease the activity. Store at 4°C not longer than 2 days. Avoid repeated freeze-thaw cycles. |
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|              |          |
|--------------|----------|
| Expiry Date: | 6 months |
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