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Datasheet for ABIN1589612

**FLT1 Protein (Dimer, glycosylated, Soluble) (Fc Tag)**

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 10 µg                                      |
| Target:                       | FLT1                                       |
| Protein Characteristics:      | glycosylated, Dimer, Soluble               |
| Origin:                       | Mouse                                      |
| Source:                       | Insect Cells                               |
| Protein Type:                 | Recombinant                                |
| Biological Activity:          | Active                                     |
| Purification tag / Conjugate: | This FLT1 protein is labelled with Fc Tag. |

## Product Details

|           |  |
|-----------|--|
| Purpose:  | VEGFR-1/Flt-1(D7)-Fc Chimera, soluble  |
| Sequence: | YGSGSKLKVP ELSLKGTQHV MQAGQTLFLK CRGEEAHSWS LPTTVSQEDK RLSITPPSAC<br>GRDNRQFCST LTLDTAQANH TGLYTCRYLP TSTSKKKKAE SSIYIFVSDA GSPFIEMHTD<br>IPKLVHMTTEG RQLIIPCRVT SPNVTVTLLK FPFDTLTPDG QRITWDSRRG FIANATYKE<br>IGLLNCEATV NGHLYQTNYL THRQNTNILD VQIRPPSPVR LLHGQTLVLN CTATELNTR<br>VQMSWNYPGK ATKRASIRQR IDRSRSHNNV FHSVVKINNV ESRDKGLYTC RVKSGSSFQS<br>FNTSVHVYEK GFISVKHRKQ PVQETTAGRR SYRLSMKVKA FPSPEIWLK DGSPATLKSA<br>RYLVHGYSLI IKDVTTEDAG DYTILLGIKQ SRLFKNLTAT LIVNVKPIY EKSVSSLPSP<br>PLYPLGSRQV LTCTVYGIPR PTITWLWHPH HHNHSKERYD FCTENEEFI LDPSSNLGNR<br>IESISQRMTV IEGTNKTVST LVVADSQTPG IYSCRAFNKI GTERNIKFY VTDVPNGFHV<br>SLEKMPAEGE DLKLSQVNVK FLYRDITWIL LRTVNNRTMH HSISKQKMAT TQDYSITLNL<br>VIKNVSLEDS GTYACRARNI YTGEDILRKT EVLVRDSEAP HLLQNLSDYE VSISGSTTLD |

## Product Details

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CQARGVPAPQ ITWFKNNHKKI QQEPGIILGP GNSTLFIERV TEEDEGVYRC RATNQKGAVE  
SAAYLTVQGT SDKSNAASDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV  
VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK  
VSNKALPAPI EKTISKAKGQ PREPQVYTLPSREEMTKNQ VSLTCLVKGF YPSDIAVEWE  
SNGQPENNYK TTPMMLDSG SFFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSLS  
LSPGK

Specificity: Chromosomal location:5 G, 5 82.0 cM

Characteristics: Length (aa):965

Purity: > 90 % by SDS-PAGE

## Target Details

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Target: FLT1

Alternative Name: VEGFR-1/Flt-1 ([FLT1 Products](#))

Background: Recombinant human soluble Vascular Endothelial Growth Factor Receptor-1 (sVEGFR-1D1-7) was fused with the Fc part of human IgG1. The recombinant mature sVEGFR-1D1-7/Fc is a disulfide-linked homodimeric protein. The sVEGFR-1D1-7/Fc monomers have a mass of approximately 130 kDa. The soluble receptor protein consists of all 7 extracellular domains (Met1-Thr751), which contain all the information necessary for high affinity ligand binding. 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), and 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 signalling 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.

Synonyms: soluble vascular endothelial growth factor receptor-1, soluble FLT1, soluble VEGFR-1

Molecular Weight: 130 kDa

Gene ID: 14254

## Target Details

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|                 |  |
|-----------------|--|
| NCBI Accession: | <a href="#">NM_010228, NP_034358</a>   |
| UniProt:        | <a href="#">P35969</a>   |
| Pathways:       | <a href="#">RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals</a> |

## Application Details

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|                    |  |
|--------------------|--|
| Application Notes: | The activity of sVEGFR-1/Fc was determined by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells. |
| Comment:           | Soluble Receptors  |
| Restrictions:      | For Research Use only  |

## Handling

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|                  |   |
|------------------|---|
| Format:          | Lyophilized   |
| Reconstitution:  | The lyophilized sVEGFR-1/Fc is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50 µg/mL. |
| Buffer:          | PBS   |
| Storage:         | -20 °C,-80 °C   |
| Storage Comment: | Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sVEGFR-1/Fc should be stored in working aliquots at -20°C.            |
| Expiry Date:     | 6 months  |