

## Human Soluble Vascular Endothelial Growth Factor receptor 1 / sVEGFR1 ELISA Kit (2 plates)

**Catalogue No.:** BEK-2162-2P

**Description:** The human Vascular Endothelial Growth Factor receptor 1 (VEGFR1) Kit is a sandwich ELISA. The capture antibody is a monoclonal human VEGFR1 antibody pre-coated onto the 96-well strip plates provided in the kit. Human test samples and standards of known VEGFR1 concentration are added to these wells and allowed to complex with the bound VEGFR1 antibody. A biotinylated anti-human VEGFR1 polyclonal antibody is then added. This detection antibody binds to the antigen thus completing the sandwich. After washing, an enzyme Avidin-Biotin-Peroxidase complex (ABC) is added which binds to the second antibody. The peroxidase substrate TMB is added to induce a coloured reaction product. The intensity of this coloured product is directly proportional to the concentration of VEGFR1 present in the samples. The purpose of this kit is the in-vitro quantitative determination of human VEGFR1 in samples such as sera, plasma, tissue lysates and cell culture supernates. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.

**Batch No.:** See product labels

**Antigen:** Recombinant sVEGFR1 amino acids 27-687 (located in the ECD domain region) produced in and purified from a sf21 insect culture system.

**Sequence:**

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30      40      50
          27-SKLLK DPELSLKGTTQ HIMQAGQTLH
          60      70      80      90      100
LQCRGEEAAHK WSLPEMVSKE SERLSITKSA CGRNGKQFCS TLTNTAQAN
          110     120     130     140     150
HTGFYSCKYL AVPTSKKKET ESAIYIFISD TGRPFVEMYS EIPEIIHMT
          160     170     180     190     200
GRELVIPCRV TSPNITVTLK KFPLDTLIPD GKRIIWDSRK GFIIISNATYK
          210     220     230     240     250
EIGLLTCEAT VNGHLYKNTY LTHRQTNTII DVQISTPRPV KLLRGHTLVL
          260     270     280     290     300
NCTATTPLNT RVQMTWSYPD EKNKRASVRR RIDQSNSHAN IFYSVLTIDK
          310     320     330     340     350
MQNKDKGLYT CRVRSGPSFK SVNTSVHIYD KAFITVKHRK QQVLETVAGK
          360     370     380     390     400
RSYRLSMKVK AFPSPEVVWL KDGLPATEKS ARYLTRGYSL IIKDVTEEDA
          410     420     430     440     450
GNYTILLSIK QSNVFKNLTA TLIVNVKPKI YEKAVSSFPD PALYPLGSRQ
          460     470     480     490     500
ILTCTAYGIP QPTIKWFWHP CNHNSHSEARC DFCSNNEESF ILDADSNMGN
          510     520     530     540     550
RIESITQRMA IIEGKNKMAS TLVVADSRIS GIYICIASNK VGTVGRNISF
          560     570     580     590     600

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FOR RESEARCH USE ONLY

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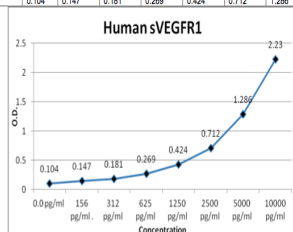
# Human Soluble Vascular Endothelial Growth Factor receptor 1 / sVEGFR1 ELISA Kit (2 plates)

YITDVPNGFH VNLEKMPTEG EDLKLSTVN KFLYRDVTWI LLRTVNNRTM  
 610 620 630 640 650  
 HYSISKQKMA ITKEHSITLN LTIMNVSLQD SGTYACRARN VYTGEEILQK  
 660 670 680  
 KEITIRDQEA PYLLRNLS DH TVAISSSTTL DCHANGV-687

- Other Names:** vascular permeability factor receptor; Tyrosine-protein kinase receptor FLT; Tyrosine-protein kinase FRT; Fms-like tyrosine kinase 1; VEGFR-1; FLT1;
- Accession:** P17948 VGFR1\_HUMAN;
- Produced in:** Standard is produced in sF-21 insect cells.
- Molecular Weight:** Standard runs as a 100 kDa band on gels.
- Specificity:** Human Vascular Endothelial Growth Factor receptor 1
- Cross-reactivity:** Human sVEGFR1 isoforms, possibly primate sVEGFR1 (untested), homology to mouse, rat, chicken sVEGFR1 proteins less than 80% across the immunogen used.
- Storage:** Store at 2-8C
- Specific References:** Agbara JO et al. (2018) Serum high sensitivity C-reactive protein, soluble FMS uric acid in pregnancy induced hypertension in a tertiary health centre. Int J Curr Res. 10(8):72384-8. Application: Human serum.
- Kit components:** The ELISA kit box contains 1 x 96-well pre-coated strip plate, protein standards, detection reagents, substrate buffer and detailed protocols.
- Range:** 156 pg/mL - 10,000 pg/mL
- Sensitivity:** < 4 pg/ml
- Kit protocol:** Please refer to our online product listing for current protocol/MSDS versions.

IX: Typical Standard Curve (for reference only, not to be used for actual data)

Concentration pg/ml	0.0 pg/ml	156 pg/ml	312 pg/ml	625 pg/ml	1250 pg/ml	2500 pg/ml	5000 pg/ml	10000 pg/ml
O.D.	0.104	0.147	0.181	0.269	0.424	0.712	1.286	2.230



This standard curve is for demonstration purposes only. A standard curve should be generated for each assay.

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