



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:

```

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 EIPEIIHMTTE
          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 TLIVNVKPQI YEKAVSSFPD PALYPLGSRQ
          460   470   480   490   500
ILTCTAYGIP QPTIKWFWHP CNHNHSEARC DFCSNNEESF ILDADSNMGN
          510   520   530   540   550
RIESITQRMA IIEGKNKMAS TLVVADSRIS GIYICIASNK VGTVGRNISF
          560   570   580   590   600

```

FOR RESEARCH USE ONLY

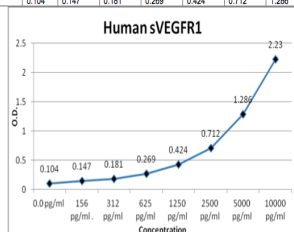
Human Soluble Vascular Endothelial Growth Factor receptor 1 / sVEGFR1 ELISA Kit (2 plates)

YITDVPNGFH VNLEKMPTEG EDLKLSTVN KFLYRDVTWI LLRTVNNRTM
610 620 630 640 650
HYSISKQKMA ITKEHSITLN LTIMNVSLQD SGTYACRARN VYTGEEILQK
660 670 680
KEITIRDQEA PYLLRNLS DH TVAISSTTL 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.

FOR RESEARCH USE ONLY