

## Human Vascular endothelial growth factor ELISA Kit (2 plates)

**Catalogue No.:** BEK-2108-2P

**Description:** The human Vascular endothelial growth factor (VEGF) Kit is a sandwich ELISA. The capture antibody is a monoclonal human VEGF antibody pre-coated onto the 96-well strip plates provided in the kit. Human test samples and standards of known VEGF concentration are added to these wells and allowed to complex with the bound VEGF antibody. A biotinylated human VEGF 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 VEGF present in the samples. The purpose of this kit is the in-vitro quantitative determination of human VEGF in samples such as sera, plasma, 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:** Vascular endothelial growth factor (VEGF) is a disulfide linked homodimeric protein associated with angiogenesis, vasculogenesis and endothelial cell growth. At least 10 isoforms of VEGF are produced by alternative splicing with varying levels of expression. The isoforms VEGF189, VEGF165 and VEGF121 are widely expressed whereas the isoforms VEGF206 and VEGF145 are uncommon. Isoforms VEGF165 and VEGF121 are freely secreted whereas isoform VEGF189 remains cell associated.

**Other Names:** VEGF-A; Vascular permeability factor; VPF; VEGFA; VEGF;

**Accession:** P15692 VEGFA\_HUMAN;

**Specificity:** Human VEGF

**Storage:** Store at 4°C

**Kit components:** The ELISA kit box contains 2 x 96 pre-coated strip plates, protein standards, detection reagents, substrate buffer and precise instructions.

**Range:** 31.2 pg/ml - 2,000 pg/ml for human sera / plasma. 15.6 pg/ml - 1,000 pg/ml for cell culture supernates.

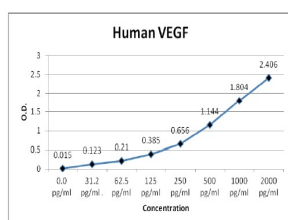
**Sensitivity:** < 1 pg/ml

**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	31.2	62.5	125	250	500	1000	2000
O.D.	0.015	0.123	0.210	0.385	0.656	1.144	1.804	2.406

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



FOR RESEARCH USE ONLY