

Human Glial cell line-derived neurotrophic factor/GDNF/ATF ELISA Kit (2 plates)

Catalogue No.: BEK-2166-2P
Description: Try our new GDNF Rapid ELISA kit (BEK-2222-2P). Same specificity, more sensitivity and faster!

The human GDNF Kit is a sandwich ELISA. The capture antibody is a monoclonal human GDNF antibody pre-coated onto the 96-well strip plates provided in the kit. Test samples and standards of known GDNF concentration are added to these wells and allowed to complex with the bound GDNF antibody. A biotinylated human GDNF 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 GDNF present in the samples. The purpose of this kit is the in-vitro quantitative determination of GDNF 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.

GDNF is a glycosylated, disulfide-bonded homodimer molecule. It was first discovered as a potent survival factor for midbrain dopaminergic neurons and was then shown to rescue these neurons in animal models of Parkinson's disease. GDNF is about 100 times more efficient survival factor for spinal motor neurons than the neurotrophins. **FUNCTION:** Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake. **SUBUNIT:** Homodimer; disulfide-linked. **SUBCELLULAR LOCATION:** Secreted protein. **ALTERNATIVE PRODUCTS:** 2 named isoforms produced by alternative splicing. **SIMILARITY:** Belongs to the TGF-beta family. GDNF subfamily.

Batch No.: See product labels
Antigen: The standard and immunogen used for this ELISA is Recombinant protein standard manufactured in a mouse myeloma (NSO) expression system, amino acids 109-211 for human GDNF.
Sequence: The standard and immunogen used for this ELISA is Recombinant protein standard manufactured in a mouse myeloma (NSO) expression system, amino acids 109-211 for human GDNF.
Other Names: Glial cell line-derived neurotrophic factor; Astrocyte-derived trophic factor 1; ATF-1
Accession: P39905 GDNF_HUMAN;
Applications: ELISA

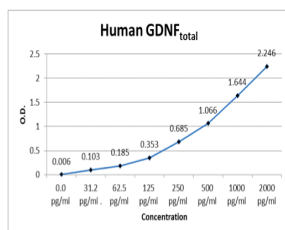
FOR RESEARCH USE ONLY

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- Storage:** Store at 2-8C
- 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:** 31.2 pg/mL - 2,000 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	31.2	62.5	125	250	500	1000	2000
O.D.	0.006	0.103	0.185	0.353	0.685	1.066	1.644	2.246



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

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