

## Rat GDNF ELISA Kit | GDNF elisa kit

Rat GDNF PicoKine ELISA Kit

CATALOG #  
**AAA45275**

REACTIVITY  
**Rat**

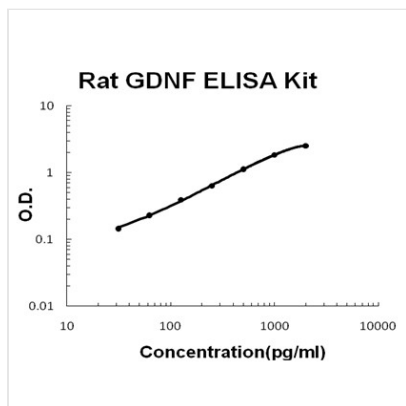
### PRODUCT SYNONYMS

GDNF; Rat GDNF PicoKine ELISA Kit; Glial cell line-derived neurotrophic factor; glial cell derived neurotrophic factor; Astrocyte derived trophic factor; ATF; ATF1; ATF2; Glial cell line derived neurotrophic factor; HFB1 GDNF; hGDNF; HSCR3; GDNF elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                        |
| Specificity             | Natural and recombinant rat GDNF                                                                                           |
| Sequence Length         | 211                                                                                                                        |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA)                                                                  |
| Assay Type              | Sandwich                                                                                                                   |
| Detection Range         | 31.2pg/ml-2000pg/ml                                                                                                        |
| Sensitivity             | < 4pg/ml                                                                                                                   |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.) |

### IMAGES



Standard Curve (Sample)

Rat GDNF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for GDNF elisa kit | <p><b>Principle of the assay:</b> rat GDNF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for GDNF has been precoated onto 96-well plates. Standards (sf21,S78-I211) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for GDNF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat GDNF amount of sample captured in plate.</p> <p><b>Background:</b> Glial cell line-derived neurotrophic factor (GDNF) is a glycosylated, disulfide-bonded homodimer that is a distantly related member of the transforming growth factor-beta superfamily.1 GDNF, is a potent neurotrophic factor that promotes the survival of dopaminergic neurones in cultures including embryonic neuronal cultures.2 GDNF, in addition to its potential role in the differentiation and survival of central nervous system neurons, has profound effects on kidney organogenesis and the development of the peripheral nervous system.3 GDNF may have utility in the treatment of Parkinson's disease, which is marked by progressive degeneration of midbrain dopaminergic neurons.1 GDNF lies on the short arm of human chromosome 5, at 5p13.1-p13.3 ability to promote dopamine uptake in midbrain cultures.2 The standard product used in this kit is recombinant rat GDNF, which is a dimer composed of two chains with 134 amino acids.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | 25453                                                                                                                                                                        |
| UniProt Accession #              | A7UGJ1; Q07731                                                                                                                                                               |
| Molecular Weight                 | 23,619 Da                                                                                                                                                                    |
| NCBI Official Synonym Full Names | glial cell derived neurotrophic factor                                                                                                                                       |
| NCBI Official Symbol             | Gdnf                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | gndf                                                                                                                                                                         |
| NCBI Protein Information         | glial cell line-derived neurotrophic factor; ATF; astrocyte-derived trophic factor; Glial cell line derived neurotrophic factor; glial cell line derived neurotrophic factor |
| UniProt Protein Name             | Glial cell line-derived neurotrophic factor                                                                                                                                  |
| UniProt Gene Name                | Gdnf                                                                                                                                                                         |
| UniProt Entry Name               | A7UGJ1_RAT                                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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