

Rat GDNF ELISA Kit | GDNF elisa kit

Rat GDNF PicoKine Fast ELISA Kit

CATALOG #
AAA125315

REACTIVITY
Rat

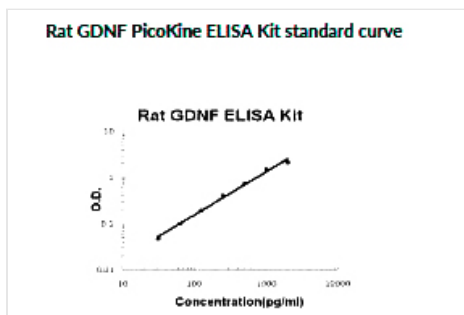
PRODUCT SYNONYMS

GDNF; Rat GDNF PicoKine Fast ELISA Kit; Rat GDNF; Glial cell line-derived neurotrophic factor ; Glial cell line-derived neurotrophic factor; Gdnf; GDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat GDNF
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<4pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GDNF elisa kit	Principle of the Assay: The Picokine™ Rat GDNF Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat GDNF with a 96-well strip plate that is pre-coated with antibody specific for GDNF. The detection antibody is a biotinylated antibody specific for GDNF. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat GDNF with immunogen: Expression system for standard: sf21; Immunogen sequence: S78-I211. The kit is analytically validated with ready to use reagents. To measure Rat GDNF, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Rat GDNF in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat GDNF in the sample.!!Background/Introduction: 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. GDNF, is a potent neurotrophic factor that promotes the survival of dopaminergic neurones in cultures including embryonic neuronal cultures. 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. GDNF lies on the short arm of human chromosome 5, at 5p13.1-p13.3 ability to promote dopamine uptake in midbrain cultures. The standard product used in this kit is recombinant rat GDNF, which is a dimmer composed of two chains with 134 amino acids.
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NCBI AND UNIPROT INFORMATION

NCBI GeneID	25453
UniProt Accession #	F1M8Z6; Q07731
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
UniProt Protein Name	Protein Tnfrsf11a
UniProt Gene Name	Tnfrsf11a
UniProt Entry Name	F1M8Z6_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.