

Rat GDNF ELISA Kit | GDNF elisa kit

GDNF Rat ELISA Kit

CATALOG # AAA58934	REACTIVITY Rat	APPLICATIONS ELISA
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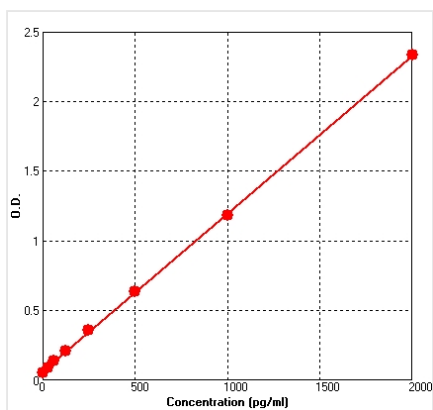
PRODUCT SYNONYMS

GDNF; GDNF Rat ELISA Kit; Rat GDNF; GDNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Assay Type	Sandwich
Detection Range	31.2 pg/ml-2000 pg/ml
Sensitivity	< 4pg/ml
Applicable Applications for GDNF elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GDNF elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-GDNF polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-GDNF polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 GDNF amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of GDNF can be calculated. Background: Glial cell-derived neurotrophic factor, also known as GDNF, is a founding member of the GDNF family of ligands (GFL). In Rats, it is encoded by the GDNF gene. This gene mapped to 5p13.3-p13.1. Mutations in this gene may be associated with Hirschsprung's disease. GDNF is a small protein that potently promotes the survival of many types of neurons. The most prominent feature of GDNF is its ability to support the survival of dopaminergic and motoneurons. It promotes the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. It also regulates kidney development and spermatogenesis, and it affects alcohol consumption.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	493796159
NCBI GeneID	2668
NCBI Accession #	NP_001265027.1
NCBI GenBank Nucleotide #	NM_001278098.1
UniProt Accession #	P39905; O95448; O95449; O95986; Q6FH33; Q96L44; Q9UD32; Q9UD33; Q9UMV2; Q9UP67; Q9UP97; B7WPK7 ; AAB33493; AAB33494
Molecular Weight	23,720 Da
NCBI Official Full Name	glial cell line-derived neurotrophic factor isoform 5
NCBI Official Synonym Full Names	glial cell derived neurotrophic factor
NCBI Official Symbol	GDNF
NCBI Official Synonym Symbols	ATF1; ATF2; HSCR3; HFB1-GDNF
NCBI Protein Information	glial cell line-derived neurotrophic factor; ATF; astrocyte-derived trophic factor
UniProt Protein Name	Glial cell line-derived neurotrophic factor
UniProt Gene Name	GDNF
UniProt Synonym Gene Names	hGDNF; ATF
UniProt Entry Name	GDNF_HUMAN

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.