

Rat Glial cell line-derived neurotrophic factor (GDNF) ELISA Kit



Catalog No: #EK11250

Orders: order@signalwayantibody.com

Package Size: #EK11250-1 48T #EK11250-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Glial cell line-derived neurotrophic factor (GDNF) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	ATF1; ATF2; HFB1-GDNF; astrocyte-derived trophic factor glial cell line derived neurotrophic factor
Accession No.	Q07731
Uniprot	Q07731
GeneID	25453;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:78.1-5000 pg/mL

Sensitivity:32 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate GDNF in samples. An antibody specific for GDNF has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGDNF present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GDNF is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of GDNF bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Glial Cell Line-derived Neurotrophic Factor (GDNF) is a highly conserved neurotrophic factor. The recombinant form of this protein was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy.

The protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. In addition to the transcript encoding GDNF, two additional alternative transcripts encoding distinct proteins, referred to as astrocyte-derived trophic factors, have also been described. Mutations in this gene may be associated with Hirschsprung disease.

Note: This product is for in vitro research use only