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GDNF ELISA Kit



Overview

Quantity:	96 tests
Target:	GDNF
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA
Product Details	
Purpose:	For quantitative detection of GDNF in rat serum, body fluids, tissue lysates or cell culture supernatants.
Sample Type:	Cell Culture Supernatant, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 4 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Rat GDNF antibody 2. Lyophilized Rat GDNF standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Rat GDNF antibody (Concentrated): 130 µl.
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. Precise pipette and disposable pipette tips 4. Automated plate washer 5. ELISA shaker 6. 1.5ml of Eppendorf tubes 7. Plate cover 8. Absorbent filter papers 9. Plastic or glass container with volume of above 1L

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Target Details

Target Details	
Target:	GDNF
Alternative Name:	GDNF (GDNF Products)
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 motorneurons. 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.
Pathways:	RTK Signaling, Synaptic Membrane, Tube Formation, Autophagy, Smooth Muscle Cell Migration
Application Details	
Comment:	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 - 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 - visualize HRP enzymatic reaction. TMB was
	catalyzed by HRP - produce a blue color product that changed into yellow after adding acidic
	stop solution. The density of yellow is proportional - the GDNF amount of sample captured in
	plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of
	GDNF can be calculated.
Plate:	Pre-coated
Reagent Preparation:	1. Before the experiment, centrifuge each kit component for several minutes to bring down all
	reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in
	duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can
	inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid
	cross contamination. 5. Do not use the expired components and the components from differen
	batches. 6. To avoid the marginal effect of plate incubation for temperature differences (the
	marginal wells always get stronger reaction), it is recommend to equilibrate the ABC working
	solution and TMB substrate for at least 30 min at room temperature (37 $^{\circ}\text{C}$) before adding to

wells. The TMB substrate (Kit Component 8) is colorless and transparent before use, if not,

Application Details

	please contact us for replacement.
Sample Preparation:	Preparation of sample and reagents 1. Sample Isolate the test samples soon after collecting,
	then, analyze immediately (within 2 hours). Or aliquot and store at -20 °C for long term. Avoid
	multiple freeze-thaw cycles.
	Body fluids, tissue lysates and cell culture supernatants: Centrifuge to remove precipitate,
	analyze immediately or aliquot and store at -20 °C .
	Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately
	1500 \times g for 15 min. Analyze the serum immediately or aliquot and store at -20 $^{\circ}\text{C}$. Note: 1.
	Coagulate blood samples completely, then, centrifuge, and avoid hemolysis and particle. 2.
	NaN3 can not be used as test sample preservative, since it is the inhibitor for HRP.
Restrictions:	For Research Use only
Handling	
Preservative:	Sodium azide, Thimerosal (Merthiolate)