

Datasheet for ABIN6719716  
**GDNF ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	1 kit
Target:	GDNF
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Astrocyte derived trophic factor, ATF, ATF1, ATF2, Glial cell line derived neurotrophic factor, HFB1 GDNF, hGDNF, HSCR4</p> <p>Background: 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.<sup>3</sup> GDNF may</p>

## Product Details

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 dimer composed of two chains with 134 amino acids.

Gene Name: GDNF

Production: Natural and recombinant rat GDNF. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: sf21, Immunogen sequence: S78-I211

## Target Details

Target:	GDNF
Alternative Name:	GDNF ( <a href="#">GDNF Products</a> )
Gene ID:	25453
NCBI Accession:	<a href="#">NP_062012</a>
UniProt:	<a href="#">A7UGJ1</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Synaptic Membrane</a> , <a href="#">Tube Formation</a> , <a href="#">Autophagy</a> , <a href="#">Smooth Muscle Cell Migration</a>

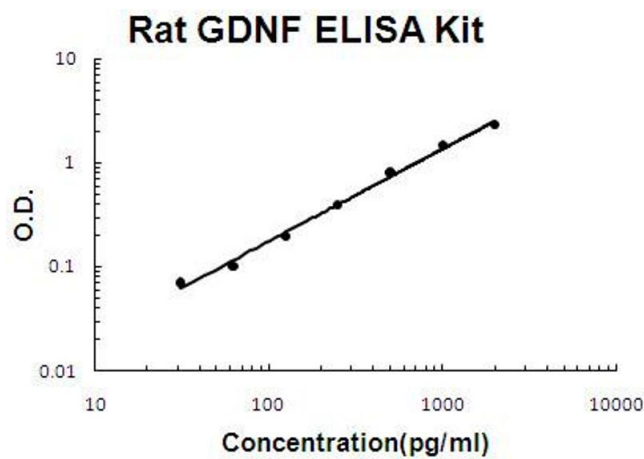
## Application Details

Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL rat GDNF standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each rat GDNF standard solution and each sample is measured in duplicate.  Blood Product Anticoagulant: Heparin Sodium  ELISA Dilution: 31.2pg/mL-2000pg/mL
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

**Image 1.** Rat GDNF Accusignal ELISA Kit Rat GDNF AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <4pg/ml.