

Datasheet for ABIN7520042
GDNF Protein (His tag)



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Overview

Quantity:	100 µg
Target:	GDNF
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GDNF protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human GDNF Protein
Sequence:	RGQRGKNRGC VLTAIHLNVT DLGLGYETKE ELIFRYCSGS CDAAETTYDK ILKNLSRNRR LVSDKVGQAC CRPIAFDDDL SFLDDNLVYH ILRKHS AKRC GCI
Specificity:	Arg109-Ile211
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1.0 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human GDNF at 1 µg/mL (100 µL/well) can bind Human GFRA1 with a linear range of 2-332 ng/mL.

Target Details

Target:	GDNF
Alternative Name:	GDNF (GDNF Products)
Background:	<p>Description: Glial cell line-derived neurotrophic factor(GDNF) is an important member of the GDNF family of ligands(GFL). The GDNF family of ligands is comprised by four neurotrophic factors: glial cell line-derived neurotrophic factor (GDNF), neurturin (NRTN), artemin (ARTN), and persephin (PSPN). It has been found that GFLs play a role in a number of biological processes including cell survival, neurite outgrowth, cell differentiation and cell migration. As the founding member, GDNF plays a key role in the promotion of the survival of dopaminergic neurons. GDNF is a highly conserved neurotrophic factor. The recombinant form of this protein also promotes the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. GDNF also regulates kidney development and spermatogenesis, and it affects alcohol consumption. It has been shown that GDNF results in two Parkinson's disease clinical trial and in a number of animal trials. It has been taken as a potent survival factor for central motoneurons.</p> <p>Name: GDNF,ATF,ATF1,ATF2,HFB1-GDNF,HSCR3</p>
Gene ID:	2668
UniProt:	P39905
Pathways:	RTK Signaling , Synaptic Membrane , Tube Formation , Autophagy , Smooth Muscle Cell Migration

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.