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Human GDNF protein

Cat #: PRP100142 Size: 10μg/100μg/1mg

Product Information

	Product Name: Human GDNF protein		
REF	**Catalog Number:** PRP100142	LOT	**Lot Number:** Refer to product label
	Purity: > 97 % as determined by SDS-PAGE		
	**Storage:** Store at -20°C		**Preparation method:** Human Cells
	Shipping: The product is shipped at ambient temperature.		

Background: 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.

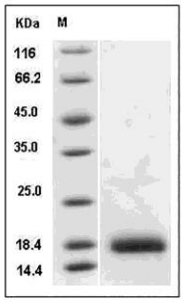
Sequence: Amino acid sequence derived from mature form of human GDNF (P39905-2) (Arg 83-Ile 185) was expressed and purified, with additional two aa (Gly& Pro) at the N-terminus.

Protein length: The recombinant human GDNF consists of 105 amino acids and predicts a molecular mass of 15.1 KDa. It migrates as approximately 18 KDa band in SDS-PAGE under reducing conditions.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Human GDNF protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human GDNF protein in sterile ddH_2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

	Fig. SDS-PAGE analysis of Human GDNF protein.

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