


Human GDNF protein, His tag (Animal-Free)

Cat #: PRP1067

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human GDNF protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1067	LOT	Lot Number: Refer to product label
	Purity: > 95% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E.coli</i>
	Shipping: The product is shipped at ambient temperature.		

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-β superfamily. It is a founding member of the GDNF family of ligands (GFL) and has been shown to interact with GFRA2 and GDNF family receptor alpha. Mature Rat and Human GDNF exhibit approximately 93% amino acid sequence identity and show considerable species cross-reactivity. Cells known to express GDNF include Sertoli cells, type 1 astrocytes, Schwann cells, neurons, pinealocytes and skeletal muscle cells. In embryonic midbrain cultures, recombinant Human GDNF promoted the survival and morphological differentiation of dopaminergic neurons and increased their high-affinity dopamine uptake.

Sequence: Amino acid sequence derived from Human GDNF protein (Ser78-Ile211) with 6xHis tag at the C-terminus was expressed.

Protein length: The recombinant Human GDNF consists of 134 amino acids and predicts a molecular mass of 16 kDa.

Biological Activity: Measure by its ability to induce proliferation in SH-SY5Y cells. The ED₅₀ for this effect is <10 ng/mL.

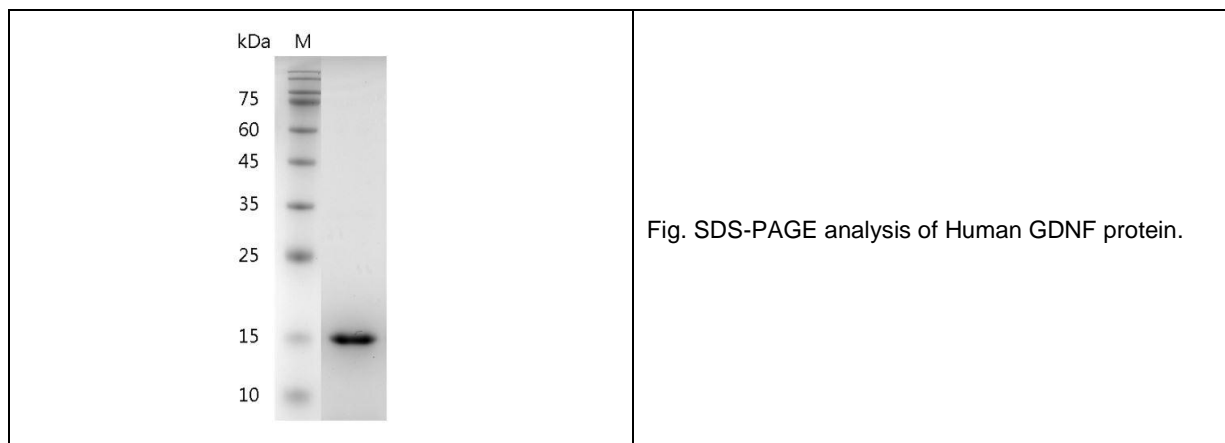
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: The protein was lyophilized from 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.

Storage Instructions: Lyophilized 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 (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human

GDNF protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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