Datasheet for ABIN6700925

GDNF Protein

2 Images

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Overview

Quantity:	10 µg
Target:	GDNF
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Glial Derived Neurotrophic Factor Recombinant Protein
Purification:	Glial Derived Neurotrophic Factor purity was determined to be greater than 98% as determined by analysis by HpLC, UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of C6 cells and is typically 0.5-5 µg/mL.

Target Details

Target:	GDNF
Alternative Name:	GDNF (GDNF Products)
Background:	Synonyms: ATF-1 Background: Glial Cell Line-Derived Neurotrophic Factor (GDNF) is a neurotrophic factor that is

Target Details

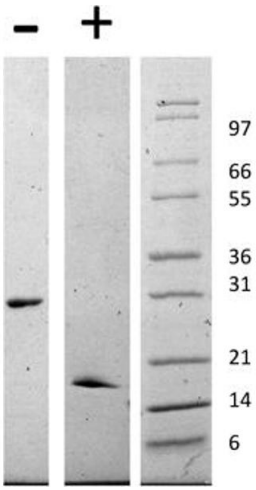
	closely related to other neurotrophic factors, such as Neurturin, Persephin, and Artemin, by a common structural feature called the cysteine-knot. GDNF signals through a multicomponent system of receptors that includes RET and GFRα1-4, to promote dopamine uptake, survival and differentiation of neurons. Recombinant human GDNF is a non-glycosylated homodimer, containing two 135 amino acid chains, with a total molecular weight of 30.4 kDa.
UniProt:	P39905
Pathways:	RTK Signaling, Synaptic Membrane, Tube Formation, Autophagy, Smooth Muscle Cell Migration

Application Details

Application Notes:	Other: User Optimized Application_Note: Glial Derived Neurotrophic Factor Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Glial Derived Neurotrophic Factor in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

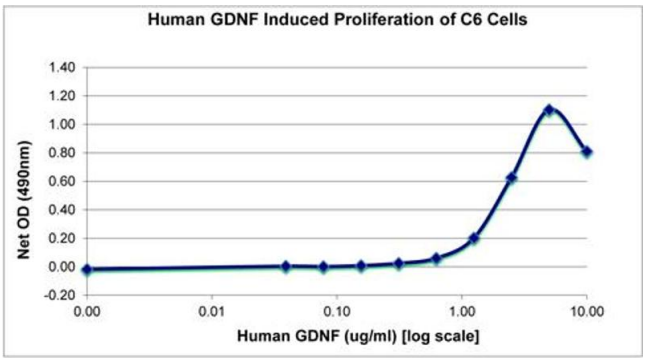
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 10 µL (10-100 µL)
Buffer:	Lyophilized in 10 mM sodium citrate, 100 mM sodium chloride, pH 4.0.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months



SDS-PAGE

Image 1. SDS-PAGE of Human Glial Derived Neurotrophic Factor Recombinant Protein SDS-PAGE of Human Human Glial Derived Neurotrophic Factor Recombinant Protein. Lane 1: 1 µg Human GDNF in non-reducing conditions . Lane 2: 1 µg Human GDNF in reducing conditions (+). Lane 3: Molecular weight marker. Human GDNF is predicted to be a disulfide linked homodimer having a total MW of 30.4 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human Glial Derived Neurotrophic Factor Recombinant Protein Bioactivity of Human Glial Derived Neurotrophic Factor Recombinant Protein. C6 cells were cultured with 0 to 10 ug/mL Human GDNF. Cell proliferation was measured after 7 days and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human GDNF is 1.7-2.6 ug/mL.