Datasheet for ABIN1691514

GDNF Protein (AA 20-211) (Fc Tag,His tag)

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Overview

Quantity:	50 µg
Target:	GDNF
Protein Characteristics:	AA 20-211
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GDNF protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Recombinant Human Glial Cell Line-Derived Neurotrophic Factor/GDNF (C-Fc-6His)
Sequence:	FPLPAGKRPP EAPAEDRSLG RRRAPFALSS DSNMPEDYPD QFDDVMDFIQ ATIKRLKRSP DKQMAVLPRR ERNRQAAAAN PENSRGKGRR GQRGKNRGCV LTAIHLNVTD LGLGYETKEE LIFRYCSGSC DAAETTYDKI LKNLSRNRRL VSDKVGQACC RPIAFDDDLS FLDDNLVYHI LRKHSAKRCG CIVDDIEGRM DEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS REEMTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSLS PGKHHHHHH
Characteristics:	Recombinant Human Glial Cell Line-Derived Neurotrophic Factor/GDNF (C-Fc-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target:	GDNF
Alternative Name:	GDNF (GDNF Products)
Background:	Recombinant Human Glial cell line-derived neurotrophic factor/GDNF/ATF is produced by our mammalian expression system. The target protein is expressed with sequence (Phe20-Ile211) of Human GDNF fused with FC and polyhistidine tag at the C-terminus. Glial Cell Line-Derived Neurotrophic Factor (GDNF) is a disulfide-linked homodimeric glycoprotein that belongs to the TGF-β superfamily. It has been shown to promote the survival of various neuronal subpopulations in both the central as well as the peripheral nervous systems at different stages of their development. Human GDNF cDNA encodes a 211 AA residue prepropeptide that is processed to yield a dimeric protein. Mature human GDNF was predicted to contain two 134 AA residue subunits. Cells known to express GDNF include Sertoli cells, type 1 astrocytes, Schwann cells, neurons, pinealocytes and skeletal muscle cells. Mutations in this gene may be associated with Hirschsprung disease.
Molecular Weight:	49.6 kDa
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:	It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.