Datasheet for ABIN7318534

GDNF Protein

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Overview

Quantity:	100 µg
Target:	GDNF
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human GDNF Protein (Active)
Sequence:	Ser78-Ile211
Characteristics:	Recombinant Human Glial Cell Line-Derived Neurotrophic Factor is produced by our E.coli expression system and the target gene encoding Ser78-Ile211 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human GDNF at 2µg/ml(100 µl/well) can bind Human GFRA1-His(Cat: PKSH033670).

Target Details

Target:	GDNF
Alternative Name:	GDNF (GDNF Products)

Target Details

Background:	Background: 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 amino acid residue prepropeptide that is processed to yield a dimeric protein. Mature human GDNF was predicted to contain two 134 amino acid 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. Synonym: Glial Cell Line-Derived Neurotrophic Factor, hGDNF, Astrocyte-Derived Trophic Factor, ATF, GDNF
Molecular Weight:	15.1 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:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.25.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.