

# Active Recombinant Human GDNF Protein

Cat. No. GDNF-109H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human GDNF Protein without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Glial cell-derived neurotrophic factor (GDNF) is a neurotrophic factor that signals through a multicomponent receptor system to activate receptor tyrosine kinase RET signaling. GDNF promotes dopamine uptake, prevents motor neuron apoptosis, and supports the survival and differentiation of neurons.
<b>Bio-activity</b>	C6 proliferation, $\leq 3 \mu\text{g/mL}$ ; $\geq 3.3 \times 10^2$ units/mg
<b>Molecular Mass</b>	Dimer, 15.2/30.4 kDa (135/270 aa)
<b>AA Sequence</b>	MSPDKQMAVLPRRERNRQAAAANPENSRGKGRRGQRGKNRGCVLTAIHLNVTDL GLGYETKEELIFRYCSGSCDAAETTYDKILKNLSRNRRLVSDKVGQACCRPIAFDDD LSFLDDNLVYHILRKHSKRKCGCI
<b>Endotoxin</b>	$\leq 1$ EUs/ $\mu\text{g}$ , Kinetic LAL
<b>Purity</b>	$\geq 95\%$ , Reducing and Non-Reducing SDS PAGE
<b>Stability</b>	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed.

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3 months when stored at -20 to -80 centigrade after reconstituting as directed.

**Storage**

Storage Prior to Reconstitution: -20 centigrade

**Storage Buffer**

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, 100 mM sodium chloride, pH 4.0

**Reconstitution**

Sterile water at 0.1 mg/mL

**Shipping**

Room temperature

**Instructions**

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

## GENE INFORMATION

**Gene Name**

GDNF glial cell derived neurotrophic factor [ Homo sapiens (human) ]

**Official Symbol**

GDNF

**Synonyms**

GDNF; glial cell derived neurotrophic factor; glial cell line-derived neurotrophic factor; astrocyte derived trophic factor; ATF1; ATF2; glial cell line derived neurotrophic factor; glial derived neurotrophic factor; HFB1 GDNF; ATF; astrocyte-derived trophic factor; HSCR3; HFB1-GDNF;

**Gene ID**

2668

**mRNA Refseq**

NM\_000514

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**Protein Refseq** [NP\\_000505](#)

**MIM** [600837](#)

**UniProt ID** [P39905](#)

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