

## Recombinant Rat GDNF Protein

Cat. No. GDNF-110R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat GDNF Protein without tag was expressed in E. coli.
<b>Species</b>	Rat
<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>	No biological activity data is available at this time.
<b>Molecular Mass</b>	Dimer, 15.1/30.1 kDa (135/270 aa)
<b>AA Sequence</b>	MSPDKQAAALPRRERNRQAAAASPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLG LGYETKEELIFRYCSCGSCAAETMYDKILKNLSRSRRLTSDKVGGQACCRPVAFDDDL SFLDDSLVYHILRKHSKRKCGCI
<b>Endotoxin</b>	≤1 EUs/μg, Kinetic LAL
<b>Purity</b>	≥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 phosphate, pH 7.5

**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 [ *Rattus norvegicus* (Norway rat) ]

**Official Symbol**

GDNF

**Synonyms**

GDNF; glial cell derived neurotrophic factor; glial cell line-derived neurotrophic factor; ATF; astrocyte-derived trophic factor; Glial cell line derived neurotrophic factor; glial cell line derived neurotrophic factor;

**Gene ID**

25453

**mRNA Refseq**

NM\_019139

**Protein Refseq**

NP\_062012

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