

Active Recombinant Human GDNF Protein

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

SPECIFICATION

Product Overview	Recombinant Human GDNF Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Bio-activity	C6 proliferation, $\leq 3 \mu\text{g/mL}$; $\geq 3.3 \times 10^2$ units/mg
Molecular Mass	Dimer, 15.2/30.4 kDa (135/270 aa)
AA Sequence	MSPDKQMAVLPRRERNRQAAAANPENSRGKGRRGQRGKNRGCVLTAIHLNVTDL GLGYETKEELIFRYCSGSCDAAETTYDKILKNLSRNRRLVSDKVGQACCRPIAFDDD LSFLDDNLVYHILRKHSAKRCGCI
Endotoxin	≤ 1 EUs/ μg , Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE
Stability	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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