

## Active GMP Recombinant Human GDNF Protein

**Cat. No.** GDNF-133HG    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GDNF, Arg109-Ile211, was produced in NS0 cell under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	109-211 a.a.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Bio-activity</b>	<p>Measured in a cell proliferation assay using SH-SY5Y human neuroblastoma cells. The specific activity of recombinant human GDNF is approximately <math>3.1 \times 10^3</math> units/µg, which is calibrated against recombinant human GDNF Reference Standard (NIBSC code: 09/266).</p> <p>Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human GFR alpha -1/GDNF R alpha -1 Fc Chimera at 1 µg/mL can bind Recombinant Human GDNF with an apparent <math>K_d &lt; 1</math> nM.</p>
<b>Molecular Mass</b>	Predicted Molecular Mass: 11.6 (monomer) kDa
<b>N-terminal Sequence Analysis</b>	Arg109-Gly-Gln-Arg-Gly-Lys-Asn-Arg-Gly-(Cys)
<b>Endotoxin</b>	<1.0 EU per 1 µg of the protein by the LAL method.

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<b>Purity</b>	>97%, by SDS-PAGE with silver staining, under reducing conditions.
<b>Storage</b>	Avoid repeated freeze-thaw cycles. 12 months, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in PBS.
<b>Quality Statement</b>	Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## GENE INFORMATION

<b>Gene Name</b>	GDNF glial cell derived neurotrophic factor [ Homo sapiens ]
<b>Official Symbol</b>	GDNF
<b>Synonyms</b>	GDNF; ATF1; ATF2; glial cell line derived neurotrophic factor; glial derived neurotrophic factor; HFB1 GDNF; ATF; astrocyte-derived trophic factor; HSCR3; HFB1-GDNF;
<b>Gene ID</b>	2668
<b>mRNA Refseq</b>	NM_000514

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

**MIM** [600837](#)

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

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