

Active GMP Recombinant Human GDNF Protein

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

SPECIFICATION

Product Overview	Recombinant Human GDNF, Arg109-Ile211, was produced in NS0 cell under cGMP guidelines.
Species	Human
Source	Mammalian Cells
ProteinLength	109-211 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured in a cell proliferation assay using SH-SY5Y human neuroblastoma cells. The specific activity of recombinant human GDNF is approximately 3.1×10^3 units/µg, which is calibrated against recombinant human GDNF Reference Standard (NIBSC code: 09/266). 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 $K_d < 1$ nM.
Molecular Mass	Predicted Molecular Mass: 11.6 (monomer) kDa
N-terminal Sequence Analysis	Arg109-Gly-Gln-Arg-Gly-Lys-Asn-Arg-Gly-(Cys)
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>97%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	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.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Quality Statement	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.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name	GDNF glial cell derived neurotrophic factor [Homo sapiens]
Official Symbol	GDNF
Synonyms	GDNF; 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_000505
MIM	600837
UniProt ID	P39905

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA