

Active Recombinant Human GDNF Protein

Cat. No. GDNF-279G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GDNF Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Glial cell line-derived neurotrophic factor (G-DNF) is a neurotrophic factors belong to TGF-beta super family necessary for neuron survival and phenotypic maintenance in central and peripheral nervous systems. G-DNF has the potent to support the differentiation and survival of many neuron subpopulations, prominent for dopaminergic neurons and motor neurons, as well as Purkinje cells and sympathetic neurons. Sertoli cells, type 1 astrocytes, Schwann cells, neurons, pinealocytes and skeletal muscle cells are known to express GDNF in human. GDNF has shown to interact with GFRA2 and GDNF family receptor alpha 1. Mutations in this gene may be associated with Hirschsprung's disease, Parkinson's disease and amyotrophic lateral sclerosis (ALS).
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50< 1 µg/mL, measured in a cell proliferation assay using rat C6 cells, corresponding to a specific activity of >1 × 10 ³ units/mg
Molecular Mass	30.4 kDa (homo-dimer), observed by non-reducing SDS-PAGE.
AA Sequence	RGQRGKNRGCVLTAIHLNVTDLGLGYETKEELIFRYCSGSCDAAETTYDKILKNLSR

 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

	NRRLVSDKVGQACCRPIAFDDDLNFLVYHILRKHSKRCGCI
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant human Glial cell line-derived neurotrophic factor (G-DNF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhG-DNF should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	GDNF glial cell derived neurotrophic factor [Homo sapiens]
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
Protein Refseq	NP_000505

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MIM	600837
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UniProt ID	P39905
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