

Active GMP Recombinant Human GDNF Protein

Cat. No. GDNF-01HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GDNF protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The recombinant form of this protein, a highly conserved neurotrophic factor, was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. This protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. Mutations in this gene may be associated with Hirschsprung disease and Tourette syndrome. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing.
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>2.0 x 10 ⁵ IU/mg

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Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhGDNF be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

GENE INFORMATION

Gene Name	GDNF glial cell derived neurotrophic factor [Homo sapiens (human)]
Official Symbol	GDNF
Synonyms	ATF; ATF1; ATF2; HSCR3; HFB1-GDNF
Gene ID	2668
mRNA Refseq	NM_000514.4
Protein Refseq	NP_000505.1
UniProt ID	P39905
MIM	600837

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