

Recombinant Human GDNF Protein, His-tagged

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

SPECIFICATION

Product Overview Recombinant human GDNF (109-211aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Species Human

Source Insect Cells

ProteinLength 109-211aa

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 Liquid

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Molecular Mass	12.8kDa (113aa)
AA Sequence	RGQRGKNRGCVLTAIHLNVTDLGLGYETKEELIFRYCSGSCDAAETTYDKILKNLSR NRRLVSDKVGQACCRPIAFDDDL SFLDDNLVYHILRKHSAKRCGCI
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.

GENE INFORMATION

Gene Name	GDNF glial cell derived neurotrophic factor [Homo sapiens (human)]
Official Symbol	GDNF
Synonyms	GDNF; glial cell derived neurotrophic factor; ATF; ATF1; ATF2; HSCR3; HFB1- GDNF; glial cell line-derived neurotrophic factor; astrocyte-derived trophic factor
Gene ID	https://www.ncbi.nlm.nih.gov/gene/2668
mRNA Refseq	https://www.ncbi.nlm.nih.gov/nucore/NM_000514.4



Protein Refseq https://www.ncbi.nlm.nih.gov/protein/NP_000505.1

MIM <https://omim.org/entry/600837>

UniProt ID <https://www.uniprot.org/uniprotkb/P39905/entry>

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