

Active Recombinant Human GDNF Protein, His tagged

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

SPECIFICATION

Product Overview	Recombinant human GDNF, 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 in Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Bio-activity	Measured by its binding ability in a functional ELISA with Human GFR alpha-1.

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Molecular Mass	12.8 kDa
AASequence	RGQRGKNRGCVLTAIHLNVTDLGLGYETKEELIFRYCSGSCDAAETTYDKILKNLSR NRRLVSDKVGQACCRPIAFDDDLSDNLDNLVYHILRKHSKRRCGCI
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
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)

GENE INFORMATION

Gene Name	GDNF glial cell derived neurotrophic factor [Homo sapiens (human)]
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

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Protein Refseq	NP_000505
MIM	600837
UniProt ID	P39905

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