

## Recombinant Human GDNF Protein, His/S-tagged

Cat. No. GDNF-15H Lot. No. (See product label)

### SPECIFICATION

**Species** Human

**Source** E.coli

**Description**

This gene encodes a highly conserved neurotrophic factor. The recombinant form of this protein 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. The encoded protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. In addition to the transcript encoding GDNF, two additional alternative transcripts encoding distinct proteins, referred to as astrocyte-derived trophic factors, have also been described. Mutations in this gene may be associated with Hirschsprung disease.

**Form** Lyophilized from sterile PBS, pH 7.4

**Purity** >95% by SDS-PAGE

**Storage** Store at -70 centigrade or below. Avoid freeze/thaw.

### GENE INFORMATION

**Gene Name** GDNF glial cell derived neurotrophic factor [ Homo sapiens ]

**Official Symbol** GDNF

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<b>Synonyms</b>	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;
<b>Gene ID</b>	2668
<b>mRNA Refseq</b>	NM_000514
<b>Protein Refseq</b>	NP_000505
<b>MIM</b>	600837
<b>UniProt ID</b>	P39905
<b>Chromosome Location</b>	5p13.1-p12
<b>Pathway</b>	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; NCAM signaling for neurite out-growth, organism-specific biosystem; NCAM1 interactions, organism-specific biosystem; Signaling events regulated by Ret tyrosine kinase, organism-specific biosystem;
<b>Function</b>	growth factor activity; protein homodimerization activity; receptor binding;

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