

Recombinant Human GDNF

Cat. No. GDNF-26274TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human GDNF containing 2 x 135 amino acid, 30,360 Dalton.
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. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene may be associated with Hirschsprung disease.
Tissue specificity	In the brain, predominantly expressed in the striatum with highest levels in the caudate and lowest in the putamen.
Form	Lyophilised:Reconstitute in sterile 18MO-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 150mM Sodium chloride, 10mM Sodium citrate

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Pro-Asp-Lys.
Sequence Similarities	Belongs to the TGF-beta family. GDNF subfamily.
Full Length	Full L.
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;
Gene ID	2668
mRNA Refseq	NM_000514
Protein Refseq	NP_000505
MIM	600837
Uniprot ID	P39905
Chromosome Location	5p13.1-p12

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Pathway

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;

Function

growth factor activity; protein homodimerization activity; receptor binding;

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