

Bioactive

GDNF (Human) Recombinant Protein

Catalog # P9398

Size 2 x 10 ug

Specification

Product Description	Human GDNF (P39905, 77 a.a. - 211 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MSPDKQMAVLPRRERNRQAAAAANPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLGLGYETKEELIFRYCSGSCDAAETTYDKILKNLSRNRRLVSDKVGQACCRPIAFDDDLNFLVYHILRKHSARKGCI
Host	Escherichia coli
Theoretical MW (kDa)	30
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95.0% by SDS-PAGE
Activity	The ED ₅₀ is < 0.1 ng/mL was determined by the proliferation of rat C6 cells, corresponding to a specific activity of > 1.0 x 10 ⁷ units/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GDNF

Entrez GeneID [2668](#)

Protein Accession# [P39905](#)

Gene Name GDNF

Gene Alias ATF1, ATF2, HFB1-GDNF

Gene Description glial cell derived neurotrophic factor

Omim ID [142623](#) [171300](#) [209880](#) [600837](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations astrocyte-derived trophic factor|glial cell line derived neurotrophic factor|glial derived neurotrophic factor

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Celiac Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hirschsprung Disease](#)
- [Hydronephrosis](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Mental Disorders](#)

- [Narcolepsy](#)
- [Neoplasm Invasiveness](#)
- [Schizophrenia](#)
- [Skin Neoplasms](#)
- [Sleep Apnea](#)
- [Tourette Syndrome](#)
- [Vesico-Ureteral Reflux](#)